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## UNDERGRADUATE GUIDE

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

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

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

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

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

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

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

Schedule a campus at VisitBucky (<https://www.admissions.wisc.edu/visitbucky>) or call 608-262-3318.

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

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

Office of the Registrar (<https://registrar.wisc.edu>)  
333 East Campus Mall #10101  
Madison, WI 53715-1384

## ACCREDITATION

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

230 South Lasalle Street, Suite 7-500  
Chicago, IL 60604  
Telephone 1-800-621-7440

[www.hlcommission.org](http://www.hlcommission.org) (<http://www.hlcommission.org>)

UW–Madison, which was first accredited in 1913, was last accredited in 2009, and will go through a reaccreditation process again in 2018–19.

## REGISTRATION WITH MINNESOTA OFFICE OF HIGHER EDUCATION

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

## AFFIRMATIVE ACTION AND COMPLIANCE STATEMENT

The University of Wisconsin–Madison is committed to providing equal opportunity and equal access and to complying with all applicable federal and state laws and regulations and University of Wisconsin System and university non-discrimination policies and procedures. For information on all covered bases, the names of the Title IX and Americans with Disabilities Act Coordinators, and the processes for how to file a complaint alleging discrimination, please contact the Office of Compliance (<https://compliance.wisc.edu>). The Office of Compliance is located at 361 Bascom Hall, 500 Lincoln Drive, Madison WI 53706 and can be reached at Voice: 608-265-6018 (relay calls accepted); Fax: 608-263-4725; Email: [uwcomplianceoffice@wisc.edu](mailto:uwcomplianceoffice@wisc.edu).

The following are the nondiscrimination bases for covering students and applicants for admission to the university; university employees and applicants for employment at the university; and those wishing to take part in university programs and activities, including visitors to campus.

## STUDENTS/EDUCATIONAL PROGRAMS

- age
- ancestry
- color
- creed
- disability
- ethnicity (specifically involving harassment by UW employees)
- gender identity or expression
- marital or parental status
- national origin
- pregnancy
- race
- religion
- retaliation for opposing discrimination, making a complaint of discrimination or taking part in an investigation relating to discrimination
- sex
- sexual orientation
- or any other category protected by law, including physical condition or developmental disability as defined in Wisconsin Statutes§51.01(5).

## EMPLOYEES/APPLICANTS

- age
- ancestry
- arrest record
- color
- conviction record

- creed
- disability
- ethnicity (specifically involving harassment by university employees)
- gender identity or expression
- genetic information including genetic testing
- honesty testing
- marital or parental status
- military service
- national origin
- pregnancy
- race
- religion
- retaliation for opposing discrimination, making a complaint of discrimination or taking part in an investigation relating to discrimination
- sex
- sexual orientation
- use or nonuse of lawful products off the employer's premises during nonworking hours,
- veteran status
- declining to attend a meeting or participate in any communication about religious matters or political matters, or any other category protected by law

## VISITORS AND PROGRAM PARTICIPANTS/UNIVERSITY ACTIVITIES

- age
- ancestry
- color
- creed
- disability
- national origin
- race
- retaliation for making a complaint of discrimination, or taking part in an investigation relating to discrimination, or opposing discrimination
- sex
- sexual orientation

Also covered is any other non-discrimination category that may be subsequently added, even if not included in the above list, as a result of federal or State of Wisconsin court, legislative, or regulatory action, or action taken by UWS or the University.

## INFORMATION FOR STUDENTS WITH DISABILITIES

The McBurney Disability Resource Center provides disability-related services and accommodations to undergraduate, graduate, professional, Special, and guest students. The center works closely with students and faculty on the provision of reasonable accommodations to ensure access to the learning environment. Common accommodations include extended time and/or small group environment for exams, class notetakers, sign language interpreting, real time and media captioning, and conversion of printed materials to an accessible format. McBurney staff members also collaborate with students and faculty to determine reasonable flexibility with regard to attendance, participation, and deadlines for disorders that fluctuate in severity over the course of enrollment. The

center makes referrals to other campus offices or community resources for nonclassroom accommodations related to housing, transportation, personal care needs, and so on. Students should contact the center upon admission to begin the eligibility for services process. Early notice is essential in order to have accommodations in place prior to the start of the semester. For detailed information, see How to Become a McBurney Client (<http://mcburney.wisc.edu/students/howto.php>).

### McBurney Disability Resource Center

702 West Johnson Street, Suite 2104

Madison, WI 53706

608-263-2741 (voice)

608-225-7956 (text)

608-265-2998 (fax)

[mcburney@studentlife.wisc.edu](mailto:mcburney@studentlife.wisc.edu)

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

**The information, policies, and rules contained herein are subject to change. No part of this publication should be construed as a contract or offer to contract. The information in this catalog is current as of June 1, 2017. Later revisions are announced through department or program offices. Students are responsible for knowing current university regulations. University offices can provide current information about possible changes.**

## ADMISSION

### OFFICE OF ADMISSIONS AND RECRUITMENT

Students seeking to earn a bachelor's degree from the University of Wisconsin–Madison will apply for admission through the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>). Undergraduate admission is competitive and selective; professional admissions counselors review applications using a holistic process. We focus on academic excellence, reviewing high school and college coursework (when applicable), the courses students have chosen to take, the rigor and breadth of the curriculum, and how the student has performed in their coursework. We also consider written essays, letters of recommendation, and extracurricular involvement.

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

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

### APPLY ([HTTPS://WWW.ADMISSIONS.WISC.EDU/APPLY](https://www.admissions.wisc.edu/apply))

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

Dates and Deadlines (<https://www.admissions.wisc.edu/apply>)

Freshman Applicants (<https://www.admissions.wisc.edu/apply/freshman/materials.php>)



Transfer Applicants (<https://www.admissions.wisc.edu/apply/transfer/materials.php>)

Reentry Applicants (<https://www.admissions.wisc.edu/apply/reentry>)

## FRESHMEN

Competitive freshman applicants have taken advantage of the rigor offered at their high schools, performed well in challenging courses, and have strong ACT or SAT scores. Beyond academic excellence we are looking for students who demonstrate leadership, community engagement, and passion.

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

## TRANSFER STUDENTS

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

Students are considered transfer applicants if they have enrolled in an accredited college or university in a degree-granting program after graduating from high school or earning a GED/HSED. Students must have 24 transferable credits earned at a college or university after high school graduation to be eligible for admission as a transfer applicant. For more information about admission requirements and expectations of transfer applicants please see our website (<https://www.admissions.wisc.edu/apply/transfer/requirements.php>).

Prospective transfer students can begin satisfying UW–Madison general education and degree requirements before transferring. For more information on selecting courses for the purpose of satisfying UW–Madison requirements, see Transfer Admissions (<https://www.admissions.wisc.edu/apply/transfer>). Transfer credit is generally given for college-level courses taken at a degree-granting institution accredited by a CHEA-recognized organization (<http://chea.org>). Courses must be similar in nature, level, and content to UW–Madison undergraduate courses and apply to a UW–Madison academic program. Students may wish to consult the UW–Madison Transfer Credit Policy ([https://www.admissions.wisc.edu/apply/transfer/transfer\\_credit.php](https://www.admissions.wisc.edu/apply/transfer/transfer_credit.php)) for more details.

## REENTERING STUDENTS

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

To guarantee an early enrollment appointment time, reentry students should submit the complete application by February 1 for the fall term or by October 1 for the spring term. In addition to submitting an application, reentry applicants must submit official transcripts for any

work completed elsewhere since last enrolled at UW–Madison, a list of courses in progress (if applicable), and an academic action from the dean's office if they are in "dropped" or "must obtain permission to continue" status.

## NONDEGREE UNIVERSITY SPECIAL AND GUEST STUDENTS

Undergraduate students visiting from other universities or recent UW–Madison graduates may desire to enroll at UW–Madison as nondegree University Special and Guest students. Contact the Division of Continuing Studies, Adult Career and Special Student Services (<http://www.continuingstudies.wisc.edu/advising>).

21 North Park Street  
Madison, WI 53715  
608-263-6960  
[advising@dcs.wisc.edu](mailto:advising@dcs.wisc.edu)

## PLACEMENT TESTS

Each student comes to UW–Madison with a unique set of skills and academic preparation. To assess where each student stands in beginning to meet their General Education Requirements (p. 17), placement tests provide academic advisors with the tools to help determine in which courses students should enroll. Placement tests are required of all incoming freshman and some transfer students depending on college course work. Other exams such as ACT, SAT, SAT II, TOEFL, Advanced Placement (AP), International Baccalaureate (IB), etc. do not satisfy the requirement of placement tests, however, scores on these exams may assist in appropriate course enrollment advising.

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

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

## LANGUAGE PLACEMENT EXAMS

The UW System offers placement exams for French, German and Spanish that are available through the Regional Placement Testing Program. Students are encouraged to take a foreign language placement test if they plan to continue studying a foreign language they have already taken in high school or college. If no placement exam is taken, students may enroll in the first semester course. UW–Madison offers language instruction in more than 30 languages. For additional information about placement, see Languages at UW–Madison (<http://languages.wisc.edu/advising/placement>).

## MATH PLACEMENT EXAMS

Students admitted to undergraduate degree granting programs who:

1. Are admitted as first year students
2. Are admitted as transfer students and

A. Have not previously completed the UW System math placement exam.

OR

B. Do not have credit for the UW-Madison direct equivalent of MATH 112, MATH 113, MATH 114, MATH 211, or any MATH course that is numbered higher than 211.

i. For students who have a course in progress at the time of admission, it is assumed they will complete the course, so they are not asked to take the placement test.

OR

C. Have completed the equivalent of MATH 95 or MATH 96 at a UW System institution.

#### Notes:

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

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

See also the Mathematics Placement Chart (<https://www.math.wisc.edu/undergraduate/math-placement-tech-algorithm-uw-madison>).

## ENGLISH PLACEMENT EXAMS

Students admitted to undergraduate degree-granting programs who:

1. Are admitted as first year students and are not required to take the ESLAT

OR

2. Are admitted as transfer students and

A. Have not previously completed the UW System English Placement Exam.

OR

B. Do not have credit for the UW-Madison equivalent of a Communications Part A (p. 17) course.

## ENGLISH PLACEMENT EXAMS FOR INTERNATIONAL STUDENTS

Students who have not studied in the United States all four years of high school are typically required to take the ESL Assessment Test (ESLAT) instead of the English Placement Exam, as it is a culture-neutral test of English.

## RETROACTIVE LANGUAGE CREDIT

In some schools and colleges at UW–Madison, it is possible to earn retro credits for prior work completed in a foreign language. To earn these credits, students must take a course above the first-semester level in French, German, Hebrew, Italian, Latin, Portuguese, Spanish, or any other language in which they have some proficiency. The course must be designated appropriate for earning retro credits by the department and must be the first foreign language course taken by the student after enrolling in the university. Students who take a college-level language course while still in high school may still pursue retro credits at the university.

Students interested in earning retro credits should plan to take the foreign language placement test and consult with the foreign language advisor at SOAR (<http://soar.wisc.edu>). Students must enroll in the language course prior to earning 30 degree credits (including credits transferred from other colleges but not including AP, CLEP, IB or retro credits in another language) and earn a grade of B or better. UW–Madison honors retro credits earned at previous institutions as long as the student enrolled in the course prior to earning 30 credits and earned a grade of

B or better. Native speakers of a language are not eligible to earn retro credits in that language. For more information, see Retroactive Credits (p. 289) in the College of Letters & Science section of the *Guide*.

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

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

## GCE ADVANCED LEVEL (A-LEVEL)

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

## COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program (CLEP) (<https://www.admissions.wisc.edu/apply/freshman/apib.php>) allows students who have gained college-level knowledge outside the classroom to take examinations for possible college credit. Each exam is 90 minutes long and is made up primarily of multiple-choice questions. Some exams include an essay; however, UW–Madison does not require the essay for any CLEP exam. Credit will be granted only to those students who have completed fewer than 16 semester hours of college credit when the examinations are taken. Students must earn a minimum score of 65 to receive credit. The scores for awarding credit at the University of Wisconsin–Madison do not necessarily match those recommended by the American Council on Education.

## CREDIT BY DEPARTMENTAL EXAMINATION

Students may acquire knowledge, skills, and competencies through experiences that are academic in nature but may not necessarily correspond to a setting in which UW–Madison awards traditional credit. Credit by department examination is one opportunity for undergraduate students to demonstrate mastery of material that is equivalent to what would be learned in a specific UW–Madison course. The course credits granted through departmental examination are based on a student’s

demonstration that they have mastered the learning outcomes equivalent to those for the specified course. Examples of circumstances that will lead students to seek credit by examination may be: they completed preparation for advanced placement exams in high school but were unable to take the AP test; they have placement test scores that place them in a course lower than what they think they are prepared for; they did not get transfer equivalency for a course but they judge that they have completed the material in a course at another university.

To learn more about obtaining credit by departmental examination including eligibility and fees, review the policy here (<https://kb.wisc.edu/page.php?id=49600>).

## MAJORS AND CERTIFICATES

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

- African Languages and Literature, B.A. (p. 326)
- African Languages and Literature, B.S. (p. 331)
- African Studies, Certificate (p. 741)
- Afro-American Studies, B.A. (p. 335)
- Afro-American Studies, B.S. (p. 339)
- Afro-American Studies, Certificate (p. 343)
- Agricultural Business Management, B.S. (p. 42)
- Agricultural and Applied Economics, B.S. (p. 45)
- Agronomy, B.S. (p. 53)
- American Indian Studies, Certificate (p. 345)
- Animal Sciences, B.S. (p. 59)
- Anthropology, B.A. (p. 348)
- Anthropology, B.S. (p. 353)
- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 914)
- Archaeology, Certificate (p. 357)
- Art Education, B.S. (p. 1250)
- Art History, B.A. (p. 360)
- Art History, B.S. (p. 369)
- Art, B.S. (p. 1261)
- Art, BFA (p. 1267)
- Asian American Studies, Certificate (p. 380)
- Asian Studies, B.A. (p. 745)
- Asian Studies, B.S. (p. 750)
- Astronomy–Physics, B.A. (p. 415)
- Astronomy–Physics, B.S. (p. 417)
- Athletic Training, B.S. (p. 1457)
- Atmospheric and Oceanic Sciences, B.A. (p. 421)
- Atmospheric and Oceanic Sciences, B.S. (p. 424)
- Biochemistry, B.A. (L&S) (p. 449)
- Biochemistry, B.S. (CAL) (p. 84)
- Biochemistry, B.S. (L&S) (p. 458)
- Biological Systems Engineering, B.S. (p. 93)
- Biology Core Curriculum Honors, Certificate (p. 466)
- Biology in Engineering for Engineering Majors, Certificate (p. 242)
- Biology, B.A. (L&S) (p. 1113)
- Biology, B.S. (CAL) (p. 67)
- Biology, B.S. (L&S) (p. 1123)
- Biomedical Engineering, B.S. (p. 205)
- Botany, B.A. (p. 470)
- Botany, B.S. (p. 473)
- Business Management for Agricultural and Life Sciences, Certificate (p. 48)
- Business, Certificate (p. 1190)
- Business: Accounting, BBA (p. 1181)
- Business: Actuarial Science, BBA (p. 1184)
- Business: Finance, Investment, and Banking, BBA (p. 1204)
- Business: Information Systems, BBA (p. 1217)
- Business: International Business, BBA (p. 1192)
- Business: Management and Human Resources, BBA (p. 1207)
- Business: Marketing, BBA (p. 1214)
- Business: Operations and Technology Management, BBA (p. 1220)
- Business: Real Estate and Urban Land Economics, BBA (p. 1223)
- Business: Risk Management and Insurance, BBA (p. 1187)
- Cartography and Geographic Information Systems, B.A. (p. 650)
- Cartography and Geographic Information Systems, B.S. (p. 654)
- Celtic Studies, Certificate (p. 709)
- Chemical Engineering, B.S. (p. 212)
- Chemistry, B.A. (p. 487)
- Chemistry, B.S. (p. 492)
- Chicana/o and Latina/o Studies, Certificate (p. 498)
- Chinese Professional Communications, Certificate (p. 382)
- Chinese, B.A. (p. 384)
- Chinese, B.S. (p. 389)
- Chinese, BSE (p. 1283)
- Civil Engineering, B.S. (p. 218)
- Classical Humanities, B.A. (p. 501)
- Classical Humanities, B.S. (p. 506)
- Classical Studies, Certificate (p. 510)
- Classics, B.A. (p. 513)
- Classics, B.S. (p. 516)
- Communication Arts, B.A. (p. 526)
- Communication Arts, B.S. (p. 531)
- Communication Sciences and Disorders, B.A. (p. 540)
- Communication Sciences and Disorders, B.S. (p. 543)
- Communication Sciences and Disorders, BSE (p. 1295)
- Community and Environmental Sociology, B.S. (p. 102)
- Community and Nonprofit Leadership, B.S. (p. 1514)
- Comparative Literature and Folklore Studies, B.A. (p. 548)
- Comparative Literature and Folklore Studies, B.S. (p. 551)
- Computer Engineering, B.S. (p. 232)
- Computer Sciences, B.A. (p. 556)
- Computer Sciences, B.S. (p. 560)
- Computer Sciences, Certificate (p. 565)
- Conservation Biology, B.A. (p. 475)
- Conservation Biology, B.S. (p. 480)
- Criminal Justice, Certificate (p. 888)
- Dairy Science, B.S. (p. 106)
- Dance, B.S. (p. 1433)
- Dance, BFA (p. 1438)

- Dance, Certificate (p. 1444)
- Development Economics, Certificate (p. 50)
- Digital Studies, Certificate (p. 536)
- East Asian Studies, Certificate (p. 755)
- East Central European Languages, Literatures, and Cultures, Certificate (p. 675)
- Economics, B.A. (p. 567)
- Economics, B.S. (p. 572)
- Education Studies, B.S. (p. 1450)
- Education and Educational Services, Certificate (p. 1455)
- Educational Policy Studies, Certificate (p. 1454)
- Electrical Engineering, B.S. (p. 237)
- Elementary Education, BSE (p. 1302)
- Engineering Mechanics, B.S. (p. 245)
- Engineering Physics, B.S. (p. 251)
- Engineering Thermal Energy Systems, Certificate (p. 278)
- Engineering for Energy Sustainability, Certificate (p. 256)
- English, B.A. (p. 578)
- English, B.S. (p. 590)
- Entomology, B.S. (p. 111)
- Entrepreneurship, Certificate (p. 1211)
- Environmental Sciences, B.A. (L&S) (p. 427)
- Environmental Sciences, B.S. (CAL) (p. 178)
- Environmental Sciences, B.S. (L&S) (p. 434)
- Environmental Studies Major (p. 604)
- Environmental Studies, Certificate (p. 1163)
- European Studies, Certificate (p. 757)
- Folklore, Certificate (p. 554)
- Food Science, B.S. (p. 115)
- Forest Science, B.S. (p. 120)
- French, B.A. (p. 611)
- French, B.S. (p. 616)
- French, BSE (p. 1321)
- French, Certificate (p. 621)
- Gender and Women's Studies, B.A. (p. 632)
- Gender and Women's Studies, B.S. (p. 639)
- Gender and Women's Studies, Certificate (p. 646)
- Genetics, B.S. (p. 133)
- Geography, B.A. (p. 657)
- Geography, B.S. (p. 661)
- Geological Engineering, B.S. (p. 225)
- Geology and Geophysics, B.A. (p. 666)
- Geology and Geophysics, B.S. (p. 670)
- German, B.A. (p. 676)
- German, B.S. (p. 681)
- German, BSE (p. 1336)
- German, Certificate (p. 686)
- Global Cultures, Certificate (p. 768)
- Global Health, Certificate (p. 159)
- Health Care Management, Specialization (p. 1191)
- Health and the Humanities, Certificate (p. 602)
- History and History of Science, Medicine, and Technology, B.A. (p. 710)
- History and History of Science, Medicine, and Technology, B.S. (p. 713)
- History of Science, Medicine, and Technology, B.A. (p. 716)
- History of Science, Medicine, and Technology, B.S. (p. 719)
- History, B.A. (p. 722)
- History, B.S. (p. 730)
- Horticulture, B.S. (p. 139)
- Human Development and Family Studies, B.S. (p. 1528)
- Individual Major, B.A. (p. 900)
- Individual Major, B.S. (p. 1531)
- Individual Major, B.S. (p. 903)
- Individual Major, B.S. (p. 51)
- Individual Major, BSE (p. 1446)
- Industrial Engineering, B.S. (p. 269)
- Integrated Liberal Studies, Certificate (p. 884)
- Integrated Studies in Science, Engineering, and Society, Certificate (p. 1077)
- Interior Architecture, B.S. (p. 1523)
- International Engineering, Certificate (p. 243)
- International Studies, B.A. (p. 769)
- International Studies, B.S. (p. 814)
- Introductory Studies in Dance/Movement Therapy, Certificate (p. 1445)
- Italian, B.A. (p. 623)
- Italian, B.S. (p. 627)
- Italian, BSE (p. 1354)
- Italian, Certificate (p. 631)
- Japanese Professional Communication, Certificate (p. 393)
- Japanese, B.A. (p. 396)
- Japanese, B.S. (p. 400)
- Japanese, BSE (p. 1367)
- Jewish Studies, B.A. (p. 980)
- Jewish Studies, B.S. (p. 985)
- Jewish Studies, Certificate (p. 990)
- Journalism, JBA (p. 1045)
- Journalism, JBS (p. 1049)
- Kinesiology, B.S. (p. 1466)
- LGBTQ+ Studies, Certificate (p. 648)
- Landscape Architecture, B.S. (p. 145)
- Landscape Architecture, BSLA (p. 149)
- Languages and Cultures of Asia, B.A. (p. 404)
- Languages and Cultures of Asia, B.S. (p. 410)
- Latin American, Caribbean, and Iberian Studies, B.A. (p. 859)
- Latin American, Caribbean, and Iberian Studies, B.S. (p. 865)
- Latin, B.A. (p. 519)
- Latin, B.S. (p. 522)
- Latin, BSE (p. 1379)
- Legal Studies, B.A. (p. 890)
- Legal Studies, B.S. (p. 895)
- Life Sciences Communication, B.S. (p. 155)
- Linguistics, B.A. (p. 906)

- Linguistics, B.S. (p. 909)
- Manufacturing Engineering, Certificate (p. 279)
- Material Culture Studies, Certificate (p. 377)
- Materials Science and Engineering, B.S. (p. 273)
- Mathematics, B.A. (p. 916)
- Mathematics, B.S. (p. 925)
- Mathematics, Certificate (p. 934)
- Mechanical Engineering, B.S. (p. 281)
- Medieval Studies, Certificate (p. 738)
- Microbiology, B.A. (L&S) (p. 441)
- Microbiology, B.S. (CALS) (p. 79)
- Microbiology, B.S. (L&S) (p. 445)
- Middle East Studies, Certificate (p. 872)
- Molecular Biology, B.A. (p. 1133)
- Molecular Biology, B.S. (p. 1137)
- Music, B.A. (p. 937)
- Music, B.S. (p. 946)
- Music: Education, B.M. (p. 956)
- Music: Performance, B.M. (p. 968)
- Naval Science, BNS (p. 244)
- Neurobiology, B.A. (p. 1141)
- Neurobiology, B.S. (p. 1147)
- Nuclear Engineering Materials, Certificate (p. 258)
- Nuclear Engineering, B.S. (p. 258)
- Nursing, BSN (p. 1538)
- Nursing, BSN (Accelerated Program) (p. 1542)
- Nursing, BSN (Collaborative Program) (p. 1546)
- Nutritional Sciences, B.S. (p. 164)
- Nutritional Sciences, B.S. Dietetics (p. 168)
- Personal Finance, B.S. (p. 1517)
- Pharmaceutical Sciences, B.S. (p. 1552)
- Pharmacology and Toxicology, B.S. (p. 1552)
- Philosophy, B.A. (p. 992)
- Philosophy, B.S. (p. 995)
- Physical Education, B.S. (p. 1472)
- Physics, B.A. (p. 1000)
- Physics, B.S. (p. 1006)
- Physics, Certificate (p. 1013)
- Pilates, Certificate (p. 1445)
- Plant Pathology, B.S. (p. 172)
- Polish, B.A. (p. 687)
- Polish, B.S. (p. 689)
- Political Economy, Philosophy, and Politics, Certificate (p. 1015)
- Political Science, B.A. (p. 1016)
- Political Science, B.S. (p. 1022)
- Portuguese, B.A. (p. 1093)
- Portuguese, B.S. (p. 1095)
- Portuguese, BSE (p. 1397)
- Poultry Science, B.S. (p. 63)
- Psychology, B.A. (p. 1027)
- Psychology, B.S. (p. 1031)
- Rehabilitation Psychology, B.S. (p. 1484)
- Religious Studies, B.A. (p. 1035)
- Religious Studies, B.S. (p. 1038)
- Religious Studies, Certificate (p. 1042)
- Retailing and Consumer Behavior, B.S. (p. 1520)
- Russian, B.A. (p. 692)
- Russian, B.S. (p. 696)
- Russian, East European, and Central Asian Studies, Certificate (p. 875)
- Scandinavian Studies, B.A. (p. 700)
- Scandinavian Studies, B.S. (p. 703)
- Scandinavian Studies, Certificate (p. 706)
- Social Welfare, B.A. (p. 1055)
- Social Welfare, B.S. (p. 1060)
- Social Work, BSW (p. 1066)
- Sociology, B.A. (p. 1079)
- Sociology, B.S. (p. 1086)
- Soil Science, B.S. (p. 185)
- South Asian Studies, Certificate (p. 878)
- Southeast Asian Studies, Certificate (p. 882)
- Spanish Studies for Business Students, Certificate (p. 1098)
- Spanish Studies for Business Students, Certificate (<http://guide.wisc.edu/undergraduate/letters-science/spanish-portuguese/spanish-studies-business-students-certificate>)
- Spanish, B.A. (p. 1099)
- Spanish, B.S. (p. 1102)
- Spanish, BSE (p. 1419)
- Special Education, BSE (p. 1490)
- Statistics, B.A. (p. 1106)
- Statistics, B.S. (p. 1109)
- Studio Art, Certificate (p. 1277)
- Supply Chain Management, Specialization (p. 1202)
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- Teaching English to Speakers of Other Languages, Certificate (p. 603)
- Technical Communication, Certificate (p. 265)
- Technical Japanese Studies for Undergraduates, Certificate (p. 268)
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- Theatre and Drama, B.S. (p. 1502)
- Wildlife Ecology, B.S. (p. 127)
- Zoology, B.A. (p. 1152)
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## SCHOOLS AND COLLEGES

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## ADVISING

### WHAT IS ADVISING?

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

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

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

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

### CROSS-COLLEGE ADVISING SERVICE (CCAS)

The Cross-College Advising Service (CCAS) (<http://www.ccas.wisc.edu>) is a campuswide advising service for undergraduates who are undecided about a major and want to explore the many academic opportunities on campus. CCAS also assists students who are considering changing majors or who have not been admitted to limited-enrollment programs and need to explore other options. CCAS advisors are knowledgeable about all the programs and majors offered by the eight undergraduate schools and colleges on campus. Each year at SOAR (Student Orientation, Advising, and Registration) (<http://soar.wisc.edu>), approximately one-third of the students in the entering class self-identify as “undecided/exploring” and are assigned to CCAS advisors.

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

## CAREER PLANNING

Career planning is a multi-year process that includes self-assessment and reflection, exploring academic and career options, gaining experience in areas of interest, and ultimately organizing and conducting a job or graduate school search.

Students work with professional career advisors to engage in a wide variety of career planning activities to prepare for life after earning a degree from UW–Madison: educational workshops, job shadowing, informational interviewing, mock interviews, internships, career fairs and more. Active engagement in these activities assists students in achieving career readiness, which is “the attainment and demonstration of competencies that prepare college graduates for a successful transition into the workplace.” (National Association of Colleges and Employers).

All students are encouraged to work with a career advisor. Each individual school or college offers career services, and the Career Exploration Center (CEC) works with students looking to explore their options. Links to each of the campus career services offices are available online at [careers.wisc.edu](http://careers.wisc.edu) (<http://careers.wisc.edu>).

### CAREER EXPLORATION CENTER (CEC)

The Career Exploration Center (CEC) (<https://ccas.wisc.edu/careerexplorationcenter>) is an early-stage career counseling resource that focuses primarily on students who have not yet decided on an academic major and/or their intended career path. The CEC is the leading campus resource for UW–Madison undergraduates who desire integrated major and career exploration. CEC career advisors help students focus on their interests, values, strengths, and personality to give them the tools they need to make decisions about their careers and their futures.

The center offers individual career advising appointments, a robust career library, workshops on a variety of topics that engage students in major and career exploration, career assessments (often referred to as “career tests”), and the Majors Fair which provides students the opportunity to speak with representatives from more than 100 academic programs in one place.

## PRE-PROFESSIONAL STUDY PRE-HEALTH ADVISING

Students interested in preparing for medicine, dentistry, pharmacy, veterinary medicine, nursing, occupational therapy, physical therapy, physician assistant or public health, chiropractic, or podiatric medicine should work with the Center for Pre-Health Advising (CPHA) (<http://prehealth.wisc.edu>).

CPHA supports students as they explore graduate and professional programs in healthcare. Its team of professional advisors helps students integrate the prerequisite coursework into their school/college and major requirements, discuss ways to get involved in research and clinical service opportunities on campus. CPHA advisors can help students prepare for professional exams and the application process, summer research programs, internships, and scholarship opportunities.

### PRE-LAW

The best preparation for law school is a broad liberal arts background that includes courses that strengthen communication skills, the ability to think logically, and understanding human instructions and values. Pre-law is not an undergraduate major.

The Center for Pre-Law Advising provides advising and other resources to UW-Madison students and alumni at all stages in the process of considering, preparing for, and applying to law school. Unlike other pre-professional tracks in college, there is no prerequisite coursework that students must complete in order to either apply to or succeed in law school. There are, however, certain skills and broad areas of knowledge that could better prepare students for law school. Pre-Law Advising staff are available to assist with course selection, law school application development, and research on careers in the legal profession. For more information, students should contact a pre-law advisor (see Pre-Law Advising (<http://prelaw.wisc.edu>)).

## GRADUATING IN FOUR YEARS OR FEWER

UW-Madison encourages, supports, and expects students to work with academic advisors to create, maintain, and plan a graduation timeline. Students should consult with their assigned academic advisor(s) before each enrollment period, and more as needed.

- Developing a strategic exploration plan to explore interests while making progress on degree requirements
- Creating a plan to set and achieve academic and career goals
- Discussing academic challenges and connecting to resources that support academic success
- Reviewing procedures and requirements for declaring a major
- Using the Degree Audit Reporting System (DARS) (<https://registrar.wisc.edu>) to check progress toward the degree
- Discussing any changes to a declared major, as well as alternative plans if applying to a competitive enrollment major
- Creating a strategic course schedule to stay on track for graduation

A reciprocal agreement for a four-year graduation plan is available for most degree programs to students entering UW-Madison as freshmen. Students interested in the agreement must attend SOAR (Student Orientation, Advising, and Registration). For more information see UW-Madison Four-Year Graduation Agreement (<http://provost.wisc.edu/4yearhome.htm>).

## DEGREE AUDIT REPORTING SYSTEM (DARS)

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

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

Students can request and review their DARS in the Student Center via MyUW, and should contact their assigned advisor(s) for help reading and interpreting their DARS report.

## STUDY ABROAD STUDENTS

Students considering participation in a study abroad program sponsored by a university other than UW-Madison should contact International Academic Programs (<https://www.studyabroad.wisc.edu>) (IAP) for more information.

For all students: UW-Madison students participating in a semester-long study abroad program sponsored by a university other than UW-Madison must apply for reentry admission to Wisconsin. (Students participating in a summer or winterim program do not need to apply for reentry admission.)

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

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

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

#### Empathy and Humility

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

#### Relentless Curiosity

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

#### Intellectual Confidence

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

#### Purposeful Action

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

## ACADEMIC ENRICHMENT AND HONORS PROGRAMS

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

#### Honors Programs

Honors programs, which vary slightly among the schools and colleges, are designed for students who wish to undertake work that is more

intensive than regular course work. High grade point averages are required to maintain honors student standing. For more information, students should refer to the specific school or college (p. 13) section in this catalog, contact an honors advisor or consult Honors and Scholars Programs ([http://provost.wisc.edu/honors\\_schools\\_colleges.htm](http://provost.wisc.edu/honors_schools_colleges.htm)).

### **Undergraduate Research Opportunities**

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

### **Service Learning**

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

### **Learning Communities**

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

## **STUDY ABROAD PROGRAMS**

Study abroad programs provide students with opportunities to gain the global competence vital in the twenty-first century. Each year UW–Madison sends more than 2,000 students on study abroad programs around the globe. Study abroad provides a unique learning environment that extends and enhances courses taken on the home campus.

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

In addition to IAP, the College of Agricultural and Life Sciences (p. 29), College of Engineering (p. 194), and Wisconsin School of Business (p. 1171) also offer international programs. These programs

serve specialized needs within these schools and colleges for their undergraduate students.

### **The Value of Study Abroad**

Study abroad plays a crucial role in preparing students to broaden their international awareness and sharpen their skills for today’s global job market. Regardless of their major, students will find that study abroad has much to offer. The availability of a variety of program sites and durations allows students to select programs based on their individual academic interests and personal goals and objectives. Students can choose from programs specifically designed to further their language skills or choose from programs featuring courses taught in English, and which require no previous foreign language training. Students can also find programs that incorporate internships for academic credit, service-learning opportunities, and independent field research.

### **Academic Credit and Eligibility**

Credits earned through UW–Madison study abroad programs are considered “residence credits.” Credits and grades will be posted on the UW–Madison transcript. In general, credits earned abroad can count toward fulfilling college and major requirements in any UW–Madison school or college. Seniors who complete their major and degree requirements while abroad on a UW–Madison program may graduate at the end of their study abroad program.

Each study program has its own eligibility requirements. Opportunities are available to students at all academic levels and for a range of program durations from one week to one year. Interested students benefit by talking with their academic advisor early in their academic career about how study abroad can fit into their academic plan and future career goals.

### **Costs and Affordability**

All programs are developed as cost-effectively as possible, recognizing the financial concerns of students. Overall the cost of study abroad includes items that students would have to pay for whether they were at home or abroad: academic fees, room and board, health insurance, and everyday living expenses such as telephone, local transportation, books, and supplies.

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

## **UW–MADISON'S ESSENTIAL LEARNING OUTCOMES**

UW–Madison’s Essential Learning Outcomes (ELOs) are shared learning outcomes that serve as an overarching framework to guide the undergraduate experience. Complemented by the Wisconsin Experience, these broad categories encompass many of the goals and purposes shared by UW–Madison’s academic degree programs and co-curricular experiences.

### **Knowledge of Human Cultures and the Physical and Natural World**

*Focused by engagement with big questions, both contemporary and enduring.*



- Through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts

### Intellectual and Practical Skills

*Teamwork and problem solving. Practiced extensively across the curriculum in the context of progressively more challenging problems, projects, and standards for performance.*

- Inquiry and analysis
- Critical and creative thinking
- Written and oral communication
- Quantitative literacy
- Information, media, and technology literacy

### Personal and Social Responsibility

*Anchored through active involvement with diverse communities and real-world challenges.*

- Civic knowledge and engagement—local and global
- Intercultural knowledge and competence
- Ethical reasoning and action
- Foundations and skills for lifelong learning

### Integrative Learning

*Demonstrated through the application of knowledge, skills, and responsibilities to new settings and complex problem.*

- Synthesis and advanced accomplishment across general and specialized studies

The ELOs were developed through an extensive project conducted by the Association of American Colleges and Universities (AAC&U) responding to the question: “What qualities and skills do you want in college graduates?” The ELOs represent the responses from employers, business leaders, faculty, staff, and alumni.

## REQUIREMENTS FOR UNDERGRADUATE DEGREES

### REQUIREMENTS FOR UNDERGRADUATE DEGREES

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

### TOTAL DEGREE CREDITS

To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits (which includes AP, IB and other test credit, transfer credit, and retroactive credit). Requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements. Undergraduate Majors (p. 11).

### RESIDENCE CREDIT

Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison

campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats, as credits earned in UW–Madison Study Abroad/Study Away programs. Some schools and colleges may have additional requirements concerning courses taken in residence; students should refer to the specific school or college section of the *Guide* or consult with an advisor.

## UNDERGRADUATE MAJOR DECLARATION

Undergraduate degrees at UW–Madison presume that students are completing a program of study that consists of a degree program that combines the requirements for the degree with focused study in a discipline, or that combines school or collegewide requirements with an undergraduate major in which they pursue focused study. All undergraduates are expected to have declared or to have been admitted to their focused area of study by the end of the semester in which they have accumulated 86 credits. Students who have not met this expectation may be prevented from enrolling in future terms until they meet with their advisor. Some schools and colleges have additional requirements governing when majors may be declared; students should refer to the specific school or college section of the *Guide* and consult with an advisor about declaring their major. For additional details, see Policy on Major Declaration for Schools/Colleges That Enroll Undergraduates (<https://kb.wisc.edu/vesta/page.php?id=58465>).

## ACADEMIC PROBATION

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

## GENERAL EDUCATION REQUIREMENTS

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

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

Each school and college may choose to allow General Education courses to count toward other degree and/or major requirements. Students should always check with their advisors to discuss any additional degree requirements and determine if students are required to take specific General Education courses or to complete the requirements in a

particular order. Students should review their Degree Audit (DARS) report to see how they are progressing toward fulfilling the General Education requirements. Please refer to this website (<https://gened.wisc.edu>) for more information about the requirements.

The university-wide General Education requirements are:

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

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

**Learning Outcomes:** Students acquire critical and creative thinking skills as well as enhance their problem-solving skills through a breadth of study across the humanities and arts, social studies, computational, biological sciences and physical sciences.

In courses satisfying the Breadth requirement, students will:

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

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

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

This requirement challenges students to understand that there are many ways to research, understand, communicate about, and interpret creatively the world around us. These “ways of knowing” intersect and overlap, and the ideas presented in one area will often inform and transform what students know and how they think about the others. Students develop skills that help them make informed decisions in a wide range of political, economic, and social contexts, to think critically about the world, to better understand their own and others’ experience, and to behave in socially responsible ways. (For more information about how this exposure to breadth of inquiry and expression enriches students’ undergraduate experience and complements intensive study in the major,

please see the General Education Requirements (<https://gened.wisc.edu>) website.)

## COMMUNICATION, 3 TO 5/6 CREDITS

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

**Learning Outcomes:** Students develop skills that enable them to be effective speakers and writers in and out of the classroom.

In courses satisfying the Communication requirement, students will:

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

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

- **Part A. Literacy Proficiency.** 2–3 credits at first-year level dedicated to reading, listening, and discussion, with emphasis on writing. While most incoming freshmen are required to complete coursework to fulfill this requirement, students may be exempted from Part A by approved college course work while in high school, AP test scores, or placement testing. Students are expected to satisfy this requirement by the end of their first year of undergraduate study.
- **Part B. Enhancing Literacy Proficiency.** 2–3 credits of more advanced coursework for students who have completed or been exempted from Part A. Students should consult with the appropriate undergraduate advisor about when this requirement should be completed. Courses that satisfy this requirement are offered in many fields of study; although a wide variety of courses fulfill this requirement, students are encouraged to select a course most in keeping with their interests or other requirements of their intended field(s) of study.

## ETHNIC STUDIES, 3 CREDITS

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

**Learning Outcomes:** Students draw connections between historical and present day circumstances, and consider perceptions and cultural assumptions when examining questions and making decisions.

In courses satisfying the Ethnic Studies requirement, students will:

- articulate some of the effects the past has had on present day circumstances, perceptions of, and disparities in, race in the U.S.
- recognize and question cultural assumptions, rules, biases, and knowledge claims as they relate to race and ethnicity.
- examine questions and make decisions with consideration for the cultural perspectives and worldviews of others.

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

## QUANTITATIVE REASONING, 3 TO 6 CREDITS

**Quantitative Reasoning** is the process of forming conclusions, judgments or inferences from quantitative information. The Quantitative Reasoning requirement at UW–Madison has two parts: Part A and B. **Quantitative Reasoning A** courses provide students with skills in mathematics, computer science, statistics or formal logic that are needed for dealing with quantitative information. The acquired skills are broad-based in order to have a positive impact on the readiness of students to take a Quantitative Reasoning B course in a variety of disciplines. **Quantitative Reasoning B** courses allow students to enhance their Quantitative Reasoning Proficiency in a more advanced setting, where they make significant use of quantitative tools in the context of other course material.

**Learning Outcomes:** Students utilize mathematical models for scientific or real life problems to set up, analyze, interpret, make judgments, and draw appropriate conclusions based on quantitative analysis of data.

In courses satisfying the Quantitative Reasoning requirement, students will set up an abstract mathematical model or hypothesis for a given scientific or real life problem.

- interpret, handle and manipulate quantitative data sets for scientific or real life problems.
- quantitatively analyze data to obtain relevant insight about a given problem.
- make judgments and draw appropriate conclusions based on the quantitative analysis of data.

Students must complete the following to satisfy the Quantitative Reasoning Requirement:

- **Part A. Quantitative Reasoning Proficiency.** This requirement can be satisfied by:
  - approved college work while in high school, AP test scores, or placement testing; or
  - taking a 3 credit course at UW–Madison with a Quantitative Reasoning A designation.

To ensure timely completion of the undergraduate degree, students should complete Part A of the Quantitative Reasoning requirement by the end of their first year.

- **Part B. Enhancing Quantitative Reasoning Proficiency.** 3 credit course at UW–Madison with a Quantitative Reasoning B designation after satisfying the Part A requirement. Courses that satisfy this requirement are offered in a variety of fields of study. Students are

encouraged to select a course in keeping with their interests or other requirements of their intended field(s) of study.

## IDENTIFYING COURSES THAT MEET GENERAL EDUCATION REQUIREMENTS

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

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

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

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

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

## GENERAL EDUCATION POLICIES

*Exemption from General Education:* All students are required to meet the fundamental degree requirements of the university, which include general education.

*Disability-Based Waivers:* The university has determined that waivers to the communication and quantitative reasoning portions of the general education component would fundamentally alter the nature of the University of Wisconsin–Madison degree. Students should not expect to obtain disability-based waivers to the communication and quantitative reasoning portions of the General Education Requirements.

*Pass/Fail:* Effective fall 2012, all courses taken to meet the University General Education Requirements must be taken on a graded basis. These grades are included in students' GPA calculations according to school/college GPA rules.

## GRADUATING

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

*Conferral of Degrees.* When students have been certified as having completed all university general education, degree, and major

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

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

## ENROLLMENT AND RECORDS

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

333 East Campus Mall #10101  
608-262-3811

Many student services are available online in the Student Center on My UW–Madison (My UW) (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO?execution=e2s1>), including enrolling for courses, viewing grades, and updating address and emergency contact information. Students are responsible for the accuracy of the addresses provided in My UW and for the courses selected when they enroll. For more information about services available through the Student Center, see the Student Demos & Tutorials section of the Office of the Registrar website (<https://registrar.wisc.edu>).

My UW is available to eligible students, who gain access by using their Net ID and password. Access to My UW–Madison is available from any computer with Internet access. For further information about My UW–Madison, see DoIT (Division of Information Technology) (<http://it.wisc.edu>).

## ENROLLMENT

Students enroll for courses, obtain information about deadlines, view their class schedule, and more in the Student Center on My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO?execution=e3s1>). Individuals who are not eligible to activate their Net ID to access the Student Center can view an up-to-date schedule of classes at the Office of the Registrar website (<https://registrar.wisc.edu>). Information about key deadlines and course enrollment, and online demonstrations of class search, course enrollment, and the Student Center are also available at the Office of the Registrar website (<https://registrar.wisc.edu>). Additional assistance with the course enrollment process is available by calling 608-262-0920 or sending an e-mail to [webenroll@em.wisc.edu](mailto:webenroll@em.wisc.edu).

## GRADING SYSTEM

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

### GRADES WITH ASSOCIATED GRADE POINTS PER CREDIT

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

Excluded from the grade point average are:

S or U (Satisfactory or Unsatisfactory) in courses taken on the pass/fail basis: S for grades A through C; U for grades D and F.

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

I (Incomplete), a temporary grade used when work is not completed during a term. The symbol IN will be used to indicate an incomplete in a Cr/N course.

Audited courses, denoted as AU in place of a number of credits on grade reports and transcripts, are graded either S (Satisfactory) or NR (No Report).

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

DR (Dropped), recorded for any course officially dropped later than two days before the last day to add courses.

NW (No Work) is used to indicate that the student never attended and no work was submitted.

In those relatively few cases in which no authorized grade is reported for a student at the close of a term, NR (No Report) will be used to signify the fact for record purposes.

## CREDIT/NO CREDIT COURSES

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

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

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

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

### **STUDENT ELIGIBILITY**

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

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

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

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

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

### **PROCESS FOR REQUESTING THE PASS/FAIL GRADING OPTION**

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

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

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

Students can see whether a course is being graded on a pass/fail basis in their Student Center.

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

## **FAILURES**

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

## **INCOMPLETES**

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

Undergraduate students enrolled in the College of Letters & Science must complete the course work for which they received the Incomplete by the end of the fourth week of classes of their next term of enrollment at UW-Madison (exclusive of summer sessions). Failure to do so will result in a lapse into a grade of F, unless the time limit has been formally extended. Letters & Science students should see the L&S section on Incompletes (p. 306) for important details.

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

## **AUDIT**

Students may audit courses with instructor and advisor consent, and if no laboratory or performance skills are involved. Auditors may not recite or take examinations but are expected to attend classes regularly and do some assigned work. Although courses for which students enroll as an auditor are factored into tuition, such courses do not earn academic credit and do not count in determining full-time/part-time load for enrollment certification in an academic term. The deadline to change a course from credit to audit is the end of the fourth week of classes.

School and college policies may vary from this description. Students are advised to consult with the instructor concerning specific course requirements that must be satisfied.

## CLASS STANDING

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

Freshman: less than 24 credits  
 Sophomore: at least 24 credits  
 Junior: at least 54 credits  
 Senior: at least 86 credits

## TUITION AND FEES

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

The tuition and fee schedule is available on the Office of the Registrar website ([https://registrar.wisc.edu/tuition\\_&\\_fees.htm](https://registrar.wisc.edu/tuition_&_fees.htm)). Students who enroll after the first Friday of the official first week of classes are assessed a late initial enrollment fee. Exception: Special and Guest students have until the Friday of the second week of classes to enroll.

For tuition rate questions, contact the Office of the Registrar Tuition Assessment Section.  
 tuition@em.wisc.edu  
 608-262-4031  
 333 East Campus Mall #10301  
 Madison, WI 53715-1384

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

The Bursar's Office provides the tuition bill as an eBill which is published on the Tuition Account eBill/ePayment site. Students and their Authorized Payers receive an email alert when the eBill is available to view.

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

## PAYMENT OF TUITION AND FEES

The UW–Madison Bursar's Office does not accept debit or credit cards, nor offer an installment plan. Tuition payment options are: make an ePayment; mail a check to the Bursar's Office at the address above; pay in person with check or cash at the Bursar's Office; or put a check in the first-floor lobby or 10th-floor dropbox. For detailed payment information, see Tuition & Fee Payments (<http://www.bussvc.wisc.edu/bursar/tuitpay.html>) on the bursar's website.

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

## RESIDENCE FOR TUITION PURPOSES

Wisconsin Statutes, Section 36.27(2), governs resident status for tuition purposes at all University of Wisconsin System institutions. Students who do not qualify under one of the exceptions in the statute will be assessed nonresident tuition. In determining resident status for tuition purposes, standards are different from those used for voting, paying taxes, applying for various licenses, and the like. In general, a student must be a bona fide resident of Wisconsin for at least 12 months before enrollment for any term in order to be eligible for in-state tuition. However, a student who comes to Wisconsin primarily for educational reasons does not automatically qualify as a Wisconsin resident even after living in Wisconsin for a year or more.

For more information and the full text of Wisconsin Statutes, Section 36.27(2), see the Office of the Registrar website (<https://registrar.wisc.edu/residence.htm>) or contact a residence counselor at 608-262-1355; [res4tuition@em.wisc.edu](mailto:res4tuition@em.wisc.edu).

## MINNESOTA RECIPROCITY FOR TUITION RATES

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

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

They may also be directed to the UW–Madison Office of the Registrar (<https://registrar.wisc.edu>), Tuition Assessment Section:  
 333 East Campus Mall #10301  
 Madison, WI 53715-1384  
 tuition@em.wisc.edu  
 608-262-4031

## RULES, RIGHTS, AND RESPONSIBILITIES

### STUDENT PRIVACY RIGHTS (FERPA)

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

The university has adopted a policy statement implementing all provisions of the Family Educational Rights and Privacy Act (FERPA). A copy of this statement may be obtained at the Office of the Registrar (<https://registrar.wisc.edu>), 333 East Campus Mall #10101. The university, in accordance with the act, has designated the following as "directory information," which is publicly available unless a student asks to have any or all of it withheld: name; postal address; telephone

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

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

333 East Campus Mall #10101  
Madison, WI 53715-1384  
reginfo@em.wisc.edu  
608-262-3811

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

Information about the Family Educational Rights and Privacy Act of 1974, as amended, is distributed during Wisconsin Welcome and is available at: Office of the Registrar (<https://registrar.wisc.edu>)  
333 East Campus Mall #10101  
Madison, WI 53715-1384

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

A student may authorize a third party (e.g., a parent, guardian, spouse, potential employer, etc.) access to academic record information. An authorization form is available at the Office of the Registrar's website, or by visiting the Office of the Registrar (<https://registrar.wisc.edu>), 333 East Campus Mall #10101. The authorization form permits release of specified information on a one-time basis to the specified third party. If no authorization is on file, it will be assumed that the student does not wish to give a third party access to academic record information. This policy is designed to give students specific control over the parties to whom academic record information may be released.

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

## ACADEMIC INTEGRITY

UW-Madison students have the obligation to conduct their academic work in a manner consistent with high standards of academic integrity. They also have the right to expect that they and other students will be graded fairly, and they have the rights of due process should they be accused of academic misconduct. Therefore, it is important that students:

- become familiar with the rules of academic misconduct (UWS Ch. 14);

- ask their instructors if they are unsure whether something is acceptable (for example, how to use sources in a paper or whether to work with another student on an assignment);
- let instructors know if they think they see incidents of misconduct;
- be aware that helping someone else cheat is a violation of the rules; and

For complete discussion of the rules regarding academic integrity, see the Dean of Students website (<https://www.students.wisc.edu/doso>), or contact the assistant dean for academic integrity at 608-263-5700 or Room 70 Bascom Hall.

## STUDENT RIGHTS AND RESPONSIBILITIES

Every member of the University of Wisconsin-Madison community has the right to expect to conduct his or her academic and social life in an environment free from threats, danger, or harassment. Students also have the responsibility to conduct themselves in a manner compatible with membership in the university and local communities. UWS Chapters 17 and 18 of the Wisconsin Administrative Code list the university policies students are expected to uphold and describes the procedures used when students are accused of misconduct. Chapter 17 also lists the possible responses the university may apply when a student is found to violate policy. The process used to determine any violations and disciplinary actions is an important part of UWS 17. For the complete text of UWS Chapter 17, see this link (<https://students.wisc.edu/student-conduct/nonacademic-misconduct>), or contact the on-call dean in the Dean of Students Office, 608-263-5700, Room 70 Bascom Hall.

No student may be denied admission to, participation in or the benefits of, or discriminated against in any service, program, course or facility of the [UW] system or its institutions or centers because of the student's race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status or parental status.

## STUDENT GRIEVANCE PROCEDURE

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

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

## SEEKING ASSISTANCE

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

For personal problems, Counseling Services, a unit of University Health Services (<http://www.uhs.wisc.edu>), offers a variety of individual, group and couple counseling services. Experienced counselors, psychologists, and psychiatrists are available to assist students in overcoming depression and managing anxiety, and in developing self-awareness and

understanding, independence, and self-direction. The counseling staff is experienced and sensitive to students of diverse cultural and ethnic backgrounds. Counseling Services is located at 333 East Campus Mall; 608-265-5600. In addition, an on-call dean in Student Assistance and Judicial Affairs is usually available by telephone (608-263-5700) or on a walk-in basis (75 Bascom Hall) Monday–Friday, 8:30 a.m.–4:30 p.m.

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

## ALCOHOLEDU (HTTPS://WWW.UHS.WISC.EDU/PREVENTION/SUBSTANCE-ABUSE/ALCOHOLEDU)

*AlcoholEdu* is an online course overseen by University Health Services that educates students about the impacts of alcohol and provides them with the information to make healthy decisions. All incoming degree seeking undergraduate students—including first-year and transfer students—must complete *AlcoholEdu*. The program consists of two parts, both of which must be completed.

## STUDENT LIFE

Nine departments, one center, and a campuswide program—collaborating with many campus units—work with students during their time at UW–Madison. We know that the Wisconsin Experience has the potential to be transformative. We strive to develop world leaders, engaged citizens, and interesting people. We have high expectations of students.

To help them make the most of their experiences at Wisconsin, we urge students to get involved in something that matters, to consider themselves representatives of the university, to act with integrity in all they do, and show respect to everyone they encounter. Students should take pride in themselves as world citizens and as scholars, demonstrate a strong work ethic, and capitalize on their opportunities and challenges. In promoting this behavior, we encourage students to think not just about their future, but about their legacy.

That's what it means to be a student at Wisconsin. That's what it means to do things that matter and have purpose. Badgers make the world a better place.

## ASSOCIATED STUDENTS OF MADISON (ASM)

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

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

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

- Promotes student voice as it pertains to legislative, diversity, and university affairs
- Distributes funding for student activities, organizations, and events to maximize student involvement in shaping campus life
- Supports elected student representatives

## CENTER FOR THE FIRST-YEAR EXPERIENCE

101 Ingraham Hall  
1155 Observatory Drive  
608-263-0367

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

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

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

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

- Collaborates with campus partners to plan and implement Student Orientation, Advising, and Registration (SOAR) for incoming undergraduates and their families
- Oversees Transfer Transition Program, which provides pre-advising services to prospective students and support services to new transfer students on campus
- Assists incoming students with the academic and social transitions to the university through direct and indirect programming
- Offers seminar courses on the Wisconsin Experience and provides consultation and support to faculty and graduate students who work with first-year students

## CENTER FOR LEADERSHIP AND INVOLVEMENT

Third Floor, Red Gym  
716 Langdon Street  
608-263-0365

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

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

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

- Facilitates the registration and advising for more than 1,000 student organizations, including fraternities and sororities
- Hosts student organization fairs
- Supports the Adventure Learning Programs, Student Leadership Program, the Wisconsin Band, and the Wisconsin Singers
- Confers UW–Madison Leadership Certificate

## DEAN OF STUDENTS OFFICE

70 Bascom Hall  
500 Lincoln Drive  
608-263-5700

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

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

- Provides walk-in or call-in assistance
- Provides crisis loans and referral services to campus and community resources
- Responsible for academic and non-academic misconduct process
- Promotes academic integrity
- Works to assess potential threats and promote campus safety
- Supports faculty and staff who have concerns about students they teach or employ



## INTERNATIONAL STUDENT SERVICES

217 Red Gym  
716 Langdon Street  
608-262-2044

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

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

Twitter: [@UW\\_ISS](https://twitter.com/UW_ISS) ([https://twitter.com/UW\\_ISS](https://twitter.com/UW_ISS))

- Provides advising for more than 6,000 international students and their dependents
- Issues nonimmigrant student visa documents and provides information on immigration regulations and procedures
- Provides orientation for new arrivals, as well as continuing support services and programs for cultural adjustment and integration to campus and community life

## LESBIAN, GAY, BISEXUAL, TRANSGENDER CAMPUS CENTER

123 Red Gym  
716 Langdon Street  
Phone: 608-265-3344

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

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

Facebook: LGBT Campus Center (<https://www.facebook.com/lgbtcampuscenter>)

- Educates faculty, staff, and students about sexual orientation and gender identity via ally and topic-specific training
- Provides support to LGBTQ and ally communities as well as resource materials in the LGBTCC Library, online, and through discussion groups
- Organizes the Queer Emerging Leaders Program, the LGBTQ Leadership Institute, and a mentoring program
- Coordinates identity- and community- building events, including Out and About Month and Coming Out Month

## MCBURNEY DISABILITY RESOURCE CENTER

702 West Johnson Street, Suite 2741  
608-263-2741

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

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

Text: 608-225-7956

- Promotes accessible, open, and welcoming campus community for all people with disabilities
- Provides direct support services and classroom accommodations to students with disabilities
- Provides information and referral services on disability issues for students, faculty, and staff
- Offers peer education and campus programming around disability issues and inclusive practices

## MULTICULTURAL STUDENT CENTER

249 Red Gym  
716 Langdon Street  
608-262-4503

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

Social Media: [@UWMulticultural](https://twitter.com/@UWMulticultural) (<https://twitter.com/@UWMulticultural>)

- Ensures students of all racial and cultural backgrounds are successful and welcome
- Hosts workshops and guest speakers on topics such as race and identity, allyship, supporting LGBTQ students of color, and creating a more inclusive campus
- Organizes the Multicultural Orientation and Reception and the Way Up Student Organization Festival
- Provides opportunities for leadership, skill development, and recognition through programs like the Multicultural Leadership Summit and the Multicultural Leadership Awards and Graduation Celebration

## OFFICE OF STUDENT CONDUCT AND COMMUNITY STANDARDS

70 Bascom Hall  
500 Lincoln Drive  
608-236-5700

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

Web: [students.wisc.edu/student-conduct](http://students.wisc.edu/student-conduct) (<http://students.wisc.edu/student-conduct>)

- Upholds every student's right to learn in a community that is safe, and fosters integrity and accountability
- Provides leadership in reducing high-risk student drinking
- Partners with instructors to resolve academic misconduct incidents

## VETERAN SERVICES AND MILITARY ASSISTANCE CENTER

333 East Campus Mall, Suite 10301  
Madison, WI 53715  
608-265-4628

Email: [veterans@wisc.edu](mailto:veterans@wisc.edu) ([veterans@em.wisc.edu](mailto:veterans@em.wisc.edu))

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

- A collaborative operation between the Office of the Registrar and the Division of Student Life
- Assists U.S. military veterans, current service members, and their dependents regarding benefits, enrollment, and other activities pursuant to higher education
- Holds Veteran networking receptions and resume and interview workshop with local employers and students
- Advises the VETS student organization

## OUR WISCONSIN

South Mezzanine of the Red Gym  
716 Langdon Street  
608-262-9067

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

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

*Our Wisconsin* is an inclusion program that was developed as an effort to build community among our diverse community. *Our Wisconsin's* aim is to improve the University of Wisconsin–Madison's campus climate, as it is one of our core beliefs that every student at UW–Madison, regardless

of their background or how they may identify, should feel safe, valued, supported, and welcomed.

## ACADEMIC CALENDAR

### ACADEMIC CALENDAR

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

The current calendar was adopted by the Faculty Senate in September 2016.

## CHANGES TO THE 2017–18 GUIDE

### Animal Sciences B.S.

June 27, 2017

Major Requirements (p. 60)

- Deleted footnote #2. Moved footnote #2 text to top of section under the heading Business Emphasis. *Text:* Up to two courses may be applied to Certificate in Business Mgmt. for Ag. & Life Sciences.

Four-Year Plan (p. 63)

- Added AN SCI/DY SCI 361 as a sequence course with AN SCI/DY SCI 363 in the junior spring semester.

### Biochemistry B.S.

June 13, 2017

Four-Year Plan (p. 91)

- Changed BIOCHEM 375 to BIOCHEM 100 in the freshman fall semester

### Communication Sciences & Disorders B.A. and B.S.

September 6, 2017

B.A. (p. 540) and B.S. (p. 543) Major Requirements, CS&D Courses

- Replaced CS&D 424 with CS&D 425.

### Electrical Engineering B.S.

August 11, 2017

Requirements (p. 237), Electrical Engineering Advanced Electives, Computers & Computing

- Removed COMP SCI 400 Programming III from the list.

### Legal Studies B.A and B.S.

June 13, 2017

B.A. (p. 891) and B.S. (p. 896) Major Requirements

- Added course INTL ST 601 to Theme Group 2: Process of Legal Order and Disorder
- Added course ENVIR ST 402 to Theme Group 3: Law and Social Forces

- Added GEOG/ENVIR ST 439 to Theme Group 3: Law and Social Forces

### Mathematics B.A. and B.S.

June 20, 2017

B.A. (p. 917) and B.S. (p. 926) Major Requirements

- Added COMP SCI 300 and COMP SCI 400 to the Bio-Informatics Applied Concentration Area under Option II
- Added COMP SCI 400 to the Computer Sciences Applied Concentration Area under Option II
- Added COMP SCI 300 and COMP SCI 400 to the Cryptography Applied Concentration Area under Option II
- Added COMP SCI 300 to the Secondary Education Applied Concentration Area under Option II

### Physics B.A. and B.S.

June 30, 2017

B.A. (p. 1001) and B.S. (p. 1007) Major Requirements

- Deleted footnote #3 referenced to PHYSICS 249 and PHYSICS 307 and renumbered footnotes 4–7. *Deleted text:* Students registering for PHYSICS 249 A Modern Introduction to Physics are required to register concurrently for PHYSICS 307 Intermediate Laboratory-Mechanics and Modern Physics.

### School of Education

September 7, 2017

Liberal Studies Requirements (p. 1234)

- Removed HISTORY 249 from the History–United States History section of the United States or European History course list under the Cultural and Historical Studies header
- Removed HISTORY 306 and HISTORY/E A STDS 363 from the History–European History section of the United States or European History course list under the Cultural and Historical Studies header
- Removed duplicate LCA/HISTORY/RELIG ST 205 from the Global Perspectives course list under the Cultural and Historical Studies header
- Remove footnote from LITTRANS 374 from the Global Perspectives course list under the Cultural and Historical Studies header; the topic does not need to be approved

### Soil Science B.S.

June 13, 2017

Major Requirements (p. 186)

- Removed the duplicated F&W ECOL 550 from the Living Environment course list under the Environmental Soil Science Specialization

### Statistics B.A. and B.S.

June 30, 2017

B.A. (p. 1106) and B.S. (p. 1110) Major Requirements

- Under the heading Computer Programming, added footnote #2 after "Select one of the following" and renumbered footnotes 2–4. *Text of new footnote:* COMP SCI 300 is highly recommended because it will be particularly beneficial in most future careers. Students

who have prior computing experience equivalent to COMP SCI 200 (such as AP computer science) are recommended to take COMP SCI 300, and students who will pursue a second major in computer science must take COMP SCI 300 and COMP SCI 400 to satisfy the computer science major requirements. Removed COMP SCI 302 from course list; added COMP SCI 200, COMP SCI 300, and COMP SCI 400 to the list.

### **World Languages / Professional Sequence Course Requirements shared page**

September 15, 2017

- Semester 2, Required Course Requirements. Changed credit total for CURRIC 442 and CURRIC 443 changed from 3 to 6.

# ARTS INSTITUTE

## A GATEWAY TO THE ARTS

The Arts Institute, a division on campus dedicated to the arts, advances the arts as an invaluable resource to a vital university, and promotes all forms of artistic expression, experience, and interpretation as fundamental paths to engaging and understanding our world. The institute supports and promotes a comprehensive variety of arts courses and programs offered on campus. More than 130 faculty and staff members affiliated with the Arts Institute lend a voice in developing curriculum and programs that will further advance cross-disciplinary arts at UW–Madison.

The various arts-related departments are located within three schools and colleges for undergraduate students: College of Letters & Science (Art History, Communication Arts–Film, English–Creative Writing, and Music), School of Education (Art, Art Education, Dance, and Theatre and Drama), and School of Human Ecology (Design Studies). Arts-related programs are also available at the graduate level.

All arts-related department offerings including degrees, certificates, and/or minors are listed at Academics (<https://artsinstitute.wisc.edu/academics.htm>) on the Arts Institute website. **For additional questions, please contact each department individually.**

The Arts Institute currently offers no certificates, majors, or degrees. The division offers a limited number of courses that support the Interdisciplinary Arts Residency Program (<https://artsinstitute.wisc.edu/iarp.htm>), The Studio: Creative Arts and Design Residential Learning Community (<http://www.housing.wisc.edu/residencehalls-lc-thestudio.htm>), and various interdisciplinary initiatives in the arts under the Integrated Arts (495) subject listing.

## PEOPLE

### John Baldacchino

Director, Arts Institute  
B136 Lathrop Hall, 1050 University Ave, Madison WI 53706  
608-890-3314 | [baldacchino@wisc.edu](mailto:baldacchino@wisc.edu)

### Kate Hewson

Assistant Director for Academic Programs  
320 Lathrop Hall, 1050 University Ave, Madison WI 53706  
608-263-9290 | [kate.hewson@wisc.edu](mailto:kate.hewson@wisc.edu)

# COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

The College of Agricultural and Life Sciences provides educational opportunities to students seeking a wide variety of occupations or careers. The men and women enrolled in the college come from diverse urban, farm, suburban, and rural nonfarm backgrounds, and they have an array of interests.

Students pursue careers in business or industry, biotechnology fields, technical services, teaching, communications, conservation and recreation, human nutrition, or public service, related to the agricultural, environmental, and biological sciences. Many students continue their education in graduate schools throughout the nation and world or enter professional schools in medicine or veterinary medicine.

## EQUIPPING STUDENTS FOR 21ST-CENTURY CAREERS

The college's goal is to ensure that every student develops:

- specialized knowledge in at least one discipline, along with an education broad enough to meet the challenges of changing careers and opportunities
- the ability to think critically and creatively: to synthesize, analyze, and integrate ideas for decision making and problem solving
- the ability to communicate effectively through writing and speaking by observing, reading, listening, and using appropriate information technologies
- a global perspective; an appreciation for the interdependencies among individuals and their workplaces, communities, environments, and world; and an understanding of the interrelationships between science and society
- the ability to work with others in small or large groups, to recognize civic and social responsibilities, and to appreciate the uses of public policy in a democracy
- a respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics

## DEGREES/MAJORS/CERTIFICATES

The College of Agricultural and Life Sciences provides opportunities for study in a wide variety of department majors and interdisciplinary programs or specializations. In some instances, majors and degrees are offered cooperatively with other schools and colleges at UW–Madison. **Students are responsible for knowing academic requirements for graduation** and should consult with an advisor regularly.

Freshmen are encouraged to declare a degree and major so that an advisor can be assigned in their area of interest, but students are encouraged to change majors if academic or professional goals change. However, incoming first-year students unsure about which CALS major to declare may opt to remain undeclared while exploring their options. Interested students should contact CALS Transitional Advising and Outreach Services (<http://www.cals.wisc.edu/academics/undergraduate-programs/advising/transitional-advising-service>) for more information.

- Agricultural Business Management, B.S. (p. 42)

- Agricultural and Applied Economics, B.S. (p. 45)
- Agronomy, B.S. (p. 53)
- Animal Sciences, B.S. (p. 59)
- Biochemistry, B.S. (CALs) (p. 84)
- Biological Systems Engineering, B.S. (p. 93)
- Biology, B.S. (CALs) (p. 67)
- Business Management for Agricultural and Life Sciences, Certificate (p. 48)
- Community and Environmental Sociology, B.S. (p. 102)
- Dairy Science, B.S. (p. 106)
- Development Economics, Certificate (p. 50)
- Entomology, B.S. (p. 111)
- Environmental Sciences, B.S. (CALs) (p. 178)
- Food Science, B.S. (p. 115)
- Forest Science, B.S. (p. 120)
- Genetics, B.S. (p. 133)
- Global Health, Certificate (p. 159)
- Horticulture, B.S. (p. 139)
- Individual Major, B.S. (p. 51)
- Landscape Architecture, B.S. (p. 145)
- Landscape Architecture, BSLA (p. 149)
- Life Sciences Communication, B.S. (p. 155)
- Microbiology, B.S. (CALs) (p. 79)
- Nutritional Sciences, B.S. (p. 164)
- Nutritional Sciences, B.S. Dietetics (p. 168)
- Plant Pathology, B.S. (p. 172)
- Poultry Science, B.S. (p. 63)
- Soil Science, B.S. (p. 185)
- Wildlife Ecology, B.S. (p. 127)

## CERTIFICATE PROGRAMS

The College of Agricultural and Life Sciences offers three undergraduate certificates:

- Certificate in Business Management for Agricultural and Life Sciences (p. 48) (restricted to CALS students)
- Certificate in Development Economics (p. 50)
- Certificate in Global Health (p. 159)

Students may also elect to complete one or more certificate programs in addition to their major. See the Certificate Programs Offered—Official List ([http://registrar.wisc.edu/documents/85\\_Official\\_Certificates.pdf](http://registrar.wisc.edu/documents/85_Official_Certificates.pdf)) for a complete list.

## PEOPLE

### CALS DEAN AND DIRECTOR

Kathryn VandenBosch

Meet the Dean's staff (<http://www.cals.wisc.edu/departments/office-of-dean-and-director-2/dean>)

### ACADEMIC DEAN'S OFFICE

CALS Office of Academic Affairs  
116 Agricultural Hall

1450 Linden Drive  
Madison, WI 53706

academicaffairs@cals.wisc.edu  
608-262-3003

The Office of Academic Affairs is the academic dean's office for CALS undergraduate students. The office assists students with university and college policies and procedures such as changing a major, transferring into CALS, awarding dean's list, interpreting degree audit for graduation, student appeals, and more.

## ACADEMIC AND CAREER ADVISING

Academic and career advising is supported in CALS departments by faculty and academic staff. CALS Academic Affairs offers the following resources for all CALS students:

### TRANSITIONAL ADVISING AND OUTREACH SERVICES (TAOS)

CALS Transitional Advising and Outreach Services (TAOS) supports prospective, new, and continuing undergraduates to successfully transition into and within CALS through a variety of outreach, advising, and academic support initiatives. In addition to serving as the primary academic advising home for the CALS Undeclared Major (ALS 000), TAOS works with on- and off-campus students to explore academic opportunities in the college, oversees CALS transfer workshops, and coordinates CALS Student Orientation, Advising, and Registration (SOAR). In all of these efforts, TAOS supports CALS in creating a welcoming, inclusive learning environment for our diverse student body.

The undeclared major option (ALS 000) is primarily intended for first and second-year students who are unsure of which CALS major(s) they would like to pursue. CALS undeclared students must declare a major by their fourth semester on campus. Exceptions to these policies may be made when there are extenuating circumstances.

For more information on TAOS, transferring to CALS, or entering CALS as an undeclared first-year or continuing student, please contact the CALS Academic Affairs Office, 608-262-3003, [academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu).

### DEAN ON CALL

Dean on Call is available Monday through Friday in 116 Agricultural Hall from 9:00 a.m. - 3:30 p.m. during the academic year and 11 a.m. - 2 p.m. during the summer. Students with emergency situations or questions regarding academic policies or procedures are welcome to utilize Dean on Call on a drop-in, first come, first served basis. Students typically consult with their advisor prior to meeting with a Dean on Call.

### CAREER SERVICES

CALS Career Services provides resources and advising for students to explore career interests and develop skills as they seek employment or admission to graduate or professional programs. Advising appointment and programming information can be found on the Career Services website (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-development>). Contact Career Services at [career@cals.wisc.edu](mailto:career@cals.wisc.edu).

## ENTERING THE COLLEGE

### ADMISSION

Information on admission to the university as a freshman, transfer, or international student is available through the Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>).

Prospective students with questions about study in the College of Agricultural and Life Sciences may contact the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>) at 608-262-3003.

### TRANSFER STUDENTS

Many students transfer into the College of Agricultural and Life Sciences from other schools and colleges at UW–Madison, from elsewhere in the UW System, or from other universities. The CALS Office of Academic Affairs can provide advice on transfer policies and degree requirements and help transfer students make plans to complete their education in the college. With some specialized majors in the college, (i.e., biological systems engineering or landscape architecture) an early transfer is advisable. Students should check with the CALS Office of Academic Affairs, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003; see also this website (<http://www.cals.wisc.edu/academics/admissions/transfer-resources>).

Some students transfer after their freshman year, some as late as junior year, although a minimum of 30 credits in residence is required for all students. Transfer credits are evaluated by the UW–Madison Office of Admissions after the student has been accepted to the university.

Students transferring to UW–Madison from other UW System campuses or from a Wisconsin Technical College can evaluate course transferability using the Transfer Information System (TIS) (<http://www.uwsa.edu/tis>).

### ON-CAMPUS TRANSFER

Students will be considered for transfer to the College of Agricultural and Life Sciences from other schools and colleges at UW–Madison if they

1. are in good academic standing with the college or school in which they are enrolled,
2. meet any special requirements as specified by the intended major, and
3. have earned fewer than 86 credits, which is the threshold for senior status.

Students who have been dropped by another college or school must be readmitted to that college or school before being considered for transfer into the College of Agricultural and Life Sciences. However, being readmitted for transfer purposes by another school or college does not guarantee acceptance by CALS.

Ideally, the transfer should be initiated in advance of the semester in which enrollment is planned. Students may initiate the transfer process at any time during the semester. However, the registrar's office determines when transfers may be completed; this window generally is open from approximately the second through the twelfth week of classes. Students may transfer during the summer session only if they are enrolled in summer courses. Consult the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>) website or email ([academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu)) for details.

## SPECIAL STUDENTS

There are two basic categories of Special students at UW–Madison:

1. the College Special, who is allied with a college and must obtain an "Academic Action" from the dean to enroll each semester, and
2. the University Special, who is a nondegree student not allied with a particular college or school and is admitted through the Division of Continuing Studies (<http://guide.wisc.edu/nondegree>).

The College of Agricultural and Life Sciences Special student classification is currently on hiatus. Information about the University Special student classification is available from the Division of Continuing Studies (<http://continuingstudies.wisc.edu/advising/prospective.htm>).

## POLICIES AND REGULATIONS

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

## POLICY ON ADMISSION TO RESTRICTED-ENROLLMENT MAJORS

Enrollment is limited in certain major fields because more qualified students apply than staff and facilities in that field can accommodate. Students are cautioned to study the admission policy, criteria, and procedures for minimum admission requirements to certain majors such as landscape architecture, biological systems engineering, and dietetics. Please refer to the respective departments of instruction for details.

## DEGREES

The college offers five undergraduate degrees: a general bachelor of science (B.S.) degree, under which most of our majors are offered, and four specialized B.S. degrees in:

- Agricultural Business Management
- Biological Systems Engineering
- Dietetics
- Landscape Architecture

## REGISTRATION ISSUES

**Study Load and Progress.** Each full-time student is expected to take class and laboratory work totaling 12 to 18 credits per semester. Anyone desiring to take more than 18 credits must obtain permission in advance of registration from the advisor and the Office of Academic Affairs. Students registering for more than 18 credits will be subject to additional tuition and fees. See the Office of the Registrar's website (<http://www.registrar.wisc.edu>) for the definition of maximum credit load in the summer sessions.

At least 120 credits are required for graduation for all majors (more credits are required for some majors), and so generally a student should be enrolled for 15 or 16 credits per semester to complete degree requirements within eight semesters.

**Course Numbers.** Freshmen and sophomores are permitted to take courses for which they meet the prerequisites; courses numbered from 1 to 299 may be taken for credit by undergraduates only; those numbered from 300 to 699 are open for credit to both undergraduates and

graduates; those numbered from 700 to 999 are open to undergraduates only with permission of the instructor.

A middle digit 8 designates an honors course; a middle digit 9 designates an independent work course, a research course, or a thesis course. Freshmen, sophomores, and juniors may earn independent study credit (usually 299) with consent of an instructor and approval of their academic advisor. Seniors may earn credit for special problems work (course 699) with consent of instructor and approval of their academic advisor. There is no limit on the number of credits a student may receive for courses numbered 299 or 699.

Students may not receive more than 8 credits total for courses numbered 399 (internship). Students must have approval of a CALS advisor and complete a learning contract prior to registration for internship credits. Contact the Office of Academic Affairs, 116 Agricultural Hall, for more information.

**Thesis.** The undergraduate thesis, when required as part of the major requirements, consists of 4–8 credits (691/692). Students admitted to the Honors Program must complete a senior honors thesis for 4–8 credits (681/682).

### Pass/Fail Privilege

- All undergraduate students are eligible to take a course on a pass/fail basis if they request the option prior to the deadline and are in good academic standing at the time they request pass/fail. When a course is taken on a pass/fail basis, the instructor reports a letter grade, which is converted by the registrar to an S (satisfactory) or U (unsatisfactory). The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U shall be recorded by the registrar in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade point average. A student must earn at least a C to receive credit for the course. In addition to the S or U notation, the student transcript includes the symbol # for courses taken on a pass/fail basis.
- The following conditions apply to pass/fail courses:
  - Deadline to apply:** Students may submit pass/fail requests via their Student Center from the time that they register until midnight on the Friday at the end of the fourth week of fall and spring semesters. (For modular and summer session courses, pass/fail requests must be submitted by midnight Friday of the week in which the session is one-fourth completed). Students may not cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms. The deadline for requesting the pass/fail option is posted on the Office of the Registrar website (<https://registrar.wisc.edu>).
  - Pass/fail can only be chosen for elective courses:** Required courses cannot be taken on a pass/fail basis. CALS may reject pass/fail requests for non-elective work, but it is the student's responsibility to be sure that the requested course is an elective.
  - Pass/fail courses do not meet specific requirements:** Courses taken on a pass/fail basis will not count for non-elective requirements even if they would normally count toward such requirements.
  - Number of pass/fail courses:** Undergraduates may carry one course on a pass/fail basis per term and a maximum of 16 credits during their undergraduate career. The summer sessions collectively count as a single term.

- v **Exceptions:** CALS is authorized to make exceptions to the pass/fail policy.

**Notification:** Students can see whether a course is pass/fail in their student center. Instructors are not notified when a student elects the pass/fail option.

**Repeating College Courses.** Students thinking about repeating a course should talk with their advisor. Students must do all the work in the repeated course, including laboratory; attend regularly; participate in class discussions; and take examinations. Students will earn a final grade in the course. Such credits are indicated with an X on the transcript. Students should know that:

1. the original grade still counts in GPA and remains on the transcript;
2. credits in the repeated course do not count toward the degree, unless the course was failed the first time;
3. grade points in the repeated course do count toward calculation of cumulative GPA;
4. credits carried on courses being repeated count toward the maximum credits permitted in a semester.

*Special note:* Students cannot take more than one "Communications Part A" course for degree credit.

Transfer students must be particularly careful to avoid taking courses on the UW–Madison campus that duplicate courses taken at another school. Credit will not be given twice for the same or similar courses, nor will credit be given for a lower-level course in a sequence if students have already received credit for a higher-level course in that sequence. Students should carefully check the Evaluation of Transfer Credits prepared by the UW–Madison Office of Admissions and Recruitment and should consult with their advisor. Duplicate courses may include transfer, Farm and Industry Short Course, and Advanced Placement credits coming in as course equivalents.

**Physical Education–Elective Program.** Students may earn 1 credit per semester in a physical education–elective course that can be applied toward graduation. No more than 8 such credits will count toward graduation. CALS encourages students to pursue these courses as one way in which to build and educate both mind and body.

**Internships.** The college's internship program gives undergraduates a chance to see how they can use what they have learned in an on-the-job setting. By enrolling under a special course number (Coordinative Internship 399) students can earn 1–8 credits per semester if approved by the advisor and field supervisor. A total of 8 internship credits may be applied toward graduation. A number of agencies and corporations conduct formal training programs or internships for students before or immediately following graduation. Students are allowed diverse experiences and at the end of the internship may become a permanent employee. Interested students should contact either the CALS Career Services Office by email (career@cals.wisc.edu) or their advisor.

**Distance Education Courses.** A course may be taken by correspondence (print or online) through Independent Learning (UW Extension) with special permission from a dean in the Office of Academic Affairs. See the CALS Policy on Concurrent Enrollment and Independent Learning (<https://kb.wisc.edu/cals/academicaffairs/page.php?id=59093>) for more information.

## CREDIT THROUGH EXAMS AND SPECIAL PROGRAMS

**Credit by Examination.** A student may earn degree credits in the College of Agricultural and Life Sciences for courses completed by passing an examination specifically designed to cover the content area. See the list of courses (<https://kb.wisc.edu/vesta/page.php?id=53619>) approved for Credit by Departmental Exam.

**Internal Examinations.** Credit may be granted on the basis of satisfactory performance on an examination developed by the course instructor and approved by the department. Each department shall determine whether credit by examination will be available for a course taught within that department.

**Retroactive Language Credit.** Students in the College of Agricultural and Life Sciences may earn retroactive foreign language credit for foreign language skill developed in high school or elsewhere. For more information, please see Retroactive Credit Policy for Foreign Languages (<http://languages.wisc.edu/advising/retro>).

## ATTENDANCE AND MID-SEMESTER ISSUES

**Class Attendance.** Every student is expected to be present at all classes.

**Academic Integrity.** The College of Agricultural and Life Sciences takes academic integrity very seriously. For full details on the UW–Madison Academic Misconduct Policies, please refer to the Dean of Students Office (<http://www.students.wisc.edu/doso>).

**Registration Changes.** The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit.

Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc. Students are strongly encouraged to consult with an academic advisor, or an academic dean in 116 Agricultural Hall, prior to initial enrollment and before making any changes to enrollment. Exceptions to or extensions of the university deadlines may only be granted for CALS students by an academic dean in 116 Agricultural Hall.

**Final Exam Schedule.** The final exam schedules are listed in the class schedule in the Student Center.

## GRADUATION ISSUES

**Degree Audit Reporting System (DARS).** The Degree Audit Reporting System (DARS) ([https://registrar.wisc.edu/dars\\_student.htm](https://registrar.wisc.edu/dars_student.htm)) provides a continuous record of progress toward fulfillment of degree requirements.

**It is the student's responsibility to ensure that all requirements for graduation are fulfilled.** Requests for exceptions must begin with the student's academic advisor and be approved by the department (or equivalent) and by the academic dean. Students who believe their DARS report is in error should contact the Office of Academic Affairs in 116 Agricultural Hall directly.

**Residency Requirement.** CALS students must earn a minimum of 30 degree credits in residence at UW–Madison after they have earned 86 credits (i.e., senior standing) toward their undergraduate degree. Credits are considered "in residence" if they are earned for UW–Madison course work, including courses taken on a UW–Madison–administered study abroad program. Retroactive credits, AP credits, and credits granted by



examination are not considered “in residence.” Appeals of this policy may be considered in advance by the Office of Academic Affairs (for requests up to 6 credits) or the Scholastic Policies and Actions Committee (for requests of more than 6 credits).

**Expecting to Graduate.** Students who expect to graduate must apply to graduate in the Student Center. They may visit the University Book Store website for information about ordering caps and gowns and the Commencement website (<https://commencement.wisc.edu>) for information about the graduation ceremony. Also, their academic records will receive a final evaluation by staff in the Office of Academic Affairs. Students should also inform their advisors and report any change in graduation plans to the Office of Academic Affairs. If a student has received permission to complete final coursework while not in residence, the student must notify the Office of Academic Affairs so that records can be reviewed and certified for graduation.

**Graduation.** Students are graduated with a bachelor’s degree when they have met all the university, college, degree program, and major requirements; have earned 120 credits; and have a cumulative grade point average of 2.0 or higher on all courses carried for a grade at UW–Madison. Graduating students should know that the date they finish any outstanding incompletes (I) will determine their semester of graduation. Students with a biological systems engineering major should check with the department for additional graduation requirements.

## ACADEMIC STANDING SCHOLASTIC ACTIONS

A student shall be considered in **good standing** if that student has:

- a GPA of 2.0 or above in the semester just completed, and
- a cumulative GPA of 2.0 or above.

A student must be in good standing in order to be eligible for graduation.

A student shall be placed on academic **probation** when, in the semester just completed, that student has:

- attained less than a 2.0 GPA, or
- earned two or more grades of F.

Once on probation, the student is **continued on probation** until either removed from probation or dropped.

A student shall be **removed from probation** when that student has:

- attained a cumulative GPA of at least 2.0, and
- earned a GPA of at least 2.0 in the semester just completed, and
- no outstanding Incompletes.

A student on academic probation shall be **dropped** (academically dismissed) for at least one semester at the end of any semester in which that student has earned a GPA of less than 2.0.

A student who has been placed in dropped status and who desires to be readmitted to the College of Agricultural and Life Sciences must present to the Office of Academic Affairs evidence that time between being dropped and applying for reentry has been used gainfully. Such activity must give evidence of serious desire to gain an education, careful thought about academic goals, and strategies that will improve academic performance. If the application is accepted, the student will be **readmitted on probation**.

A student who has been readmitted on probation and who fails to earn a semester GPA of 2.0 or above will be **dropped again** and **will not be permitted to re-enroll** for at least one year and then only upon appeal to the Scholastic Policies and Actions Committee with good evidence of changed circumstances that would indicate a reasonable probability of success.

A student dropped for a third time will not be readmitted.

## APPEALS

On behalf of the Dean of the College of Agricultural and Life Sciences, the Office of Academic Affairs and the Scholastic Policies and Actions Committee may suspend or modify the operation of these regulations if their enforcement is judged to work an injustice to the student. Students should contact the Office of Academic Affairs in 116 Agricultural Hall, 608-262-3003, for appeal procedures.

**Student Grievance Procedures.** Students who believe they have been treated *unfairly*, in any academic or nonacademic matter, may contest the treatment. The complaint may involve any matter of perceived unfairness, including grading or classroom treatment, or sexual or racial harassment.

If the student cannot resolve the fairness question directly with the person at whom the complaint is directed, the student may pursue a series of steps to achieve a fair hearing and protect the rights of both parties involved.

These steps are spelled out in a statement titled “Achieving Fairness: Grievance Procedures for Students in the College of Agricultural and Life Sciences.” This statement is available from any department office, the Office of Academic Affairs, or the CALS website (<http://www.cals.wisc.edu/academics/curriculum-information/student-grievance-procedure>).

Matters of interpretation of academic requirements *not involving questions of fairness* should come via the student’s advisor to the college’s Scholastic Policies and Actions Committee.

## REQUIREMENTS

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

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS**

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

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

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

**CALS FIRST-YEAR SEMINAR REQUIREMENT**

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

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

- Students will experience diversity through meaningful dialogue with people who are different from themselves and/or engage with diversity through course content which addresses inclusivity, diversity and identity.
- Students experience an integration of experiential and classroom learning. For example, students might be asked to attend a student organization meeting, meet with a faculty or staff member, or participate in research or service.
- Students have opportunities to integrate, synthesize and apply knowledge while exploring big questions and big ideas.
- The learning objectives for the course are aligned with the UW–Madison Essential Learning Outcomes (<https://provost.wisc.edu/assessment/documents/welo2010C.pdf>).

- Updated course syllabus
- Statement of how the course meets the criteria
- Contact information for the course coordinator

## CALS INTERNATIONAL STUDIES REQUIREMENT

Required of all CALS majors, the International Studies requirement is intended to: (1) increase students' understanding of contemporary global, socio-political, and scientific issues; (2) equip students to analyze these transnational issues critically and comparatively; and (3) inspire students to further engagement in international issues.

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

- include discussion of the role of the U.S. in world affairs;
- include comparative and/or multinational content;
- include substantial non-U.S. content (typically >50% of the content or assignments or grade in the course).

**Students:** to request permission to count a course not listed here, please complete a Request for DARS Exception form (<https://www.cals.wisc.edu/academics/forms>). Requests will only be considered if the course meets the criteria above and the student has an extenuating circumstance warranting a substitution.

## APPROVED INTERNATIONAL STUDIES COURSES

Code	Title	Credits
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
ANTHRO 100	General Anthropology	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO/LCA/LINGUIS 430	Language and Culture	3-4
ANTHRO 448	Anthropology of Law	3
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E/AGRONOMY/INTER-AG/NUTR SCI 350	World Hunger and Malnutrition	3
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E 375	Special Topics	1-4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
AGRONOMY/BOTANY/SOIL SCI 370	Grassland Ecology	3
ART HIST/LCA 379	Cities of Asia	3
ART HIST 411	Topics in Asian Art	3-4

## APPROVED FIRST-YEAR SEMINAR COURSES

Code	Title	Credits
AFROAMER 199	Directed Study (Section 7, Multicultural Learning Community Seminar)	1-3
BIOCHEM 100	Biochemistry Freshman Seminar	1
INTEGSCI 100	Exploring Biology	2
COUN PSY 115	Human Resources Development: Educational Effectiveness <sup>2</sup>	1
INTEGSCI 375	Special Topics in Integrated Science	1-3
COUN PSY 125	A Wisconsin Experience Seminar	1
DY SCI 272	Pre-Capstone Seminar	1
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (GreenHouse Roots Seminar)	1-4
First Year Interest Groups (All) <sup>3</sup>		
F&W ECOL 101	Orientation to Wildlife Ecology	1
GENETICS 155	Freshman Seminar in Genetics	1
INTER-AG 155	Issues in Agriculture, Environment, and Life Sciences	1
INTER-AG 165	Introduction to International Issues in Agricultural & Life Sciences	1
INTER-AG 175	WISE Seminar	1
INTER-HE 201	Belonging, Purpose and the Ecology of Human Happiness: EcoYou	3
ILS 138	CRC First-Year Seminar: Foundations of a Liberal Arts Education	1
MICROBIO 375	Special Topics (Microbiology Freshman Seminar)	1-4

<sup>1</sup> Approved topics: BioHouse Seminar, Exploring Service, and Secrets of Science

<sup>2</sup> Approved topics: UW Athletics Life Skills Academy and PEOPLE First Year Experience Seminar

<sup>3</sup> For more information, see <http://figs.wisc.edu/>

## REQUEST TO CONSIDER COURSE FOR FIRST-YEAR SEMINAR REQUIREMENT

Faculty and staff interested in submitting a course to count for the First-Year Seminar requirement may complete an online survey ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8vKNkjVTzSdzGfz](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8vKNkjVTzSdzGfz)) with the following information:

ART HIST/LCA 428	Visual Cultures of South Asia	3	HISTORY 130	An Introduction to World History	3-4
ART HIST 500	Proseminar: Special Topics in Art History	3	HISTORY 142	History of South Asia to the Present	3-4
ART HIST/LCA 621	Mapping, Making, and Representing Colonial Spaces	3	HISTORY 242	Modern Latin America, 1898 to the Present	4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	3	HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
& DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 473	and International Field Study in Animal Agriculture and Sustainable Development	3	HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ECON 467	International Industrial Organizations	3-4	HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
ENTOM/ ENVIR ST 201	Insects and Human Culture-a Survey Course in Entomology	3	HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
ENTOM/ ZOOLOGY 371	Medical Entomology	3	HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	HISTORY/E ASIAN/ LCA/RELIG ST 308	Introduction to Buddhism	3-4
GEOG 101	Introduction to Human Geography	4	HISTORY 319	The Vietnam Wars	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3	HISTORY/ ENVIR ST 328	Environmental History of Europe	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5	HISTORY 335	Korean History, 1945 to present	3-4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
GEOG/ENVIR ST 337	Nature, Power and Society	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GEOG/ENVIR ST 339	Environmental Conservation	4	HISTORY 349	Contemporary France, 1914 to the Present	3-4
GEOG 340	World Regions in Global Context	3	HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
GEOG 349	Europe	3	HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
GEOG 353	Russia and the NIS-Topical Analysis	3	HISTORY 357	The Second World War	3-4
GEOG 355	Africa, South of the Sahara	3	HISTORY 359	History of Europe Since 1945	3-4
GEOG 358	Human Geography of Southeast Asia	3	HISTORY/ E A STDS 363	China and World War II in Asia	3-4
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3	HISTORY 378	History of Africa Since 1870	3-4
GEOG/ENVIR ST 537	Culture and Environment	4	HISTORY 410	History of Germany, 1871 to the Present	3-4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4	HISTORY 419	History of Soviet Russia	3-4
HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY 105	Introduction to the History of Africa	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY 108	Introduction to East Asian History - Korea	3-4	HISTORY 444	History of East Africa	3-4
HISTORY 120	Europe and the Modern World 1815 to the Present	4	HISTORY 445	History of Equatorial Africa	3-4
HISTORY 124	British History: 1688 to the Present	4	HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	POLI SCI 322	Politics of Southeast Asia	3-4
HISTORY 475	European Social History, 1914-Present	3-4	POLI SCI 324	Political Power in Contemporary China	3-4
HISTORY 514	European Cultural History Since 1870	3-4	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
HORT 376 & HORT 378	Tropical Horticultural Systems and Tropical Horticultural Systems International Field Study	3	POLI SCI 329	African Politics	3-4
INTL BUS 200	International Business	3	POLI SCI 334	Russian Politics	3-4
INTL BUS 365	Contemporary Topics	1-3	POLI SCI 340	The European Union: Politics and Political Economy	3-4
INTL ST 101	Introduction to International Studies	3-4	POLI SCI 345	Conflict Resolution	3-4
INTL ST/ED POL 335	Globalization and Education	3	POLI SCI 346	China in World Politics	3-4
INTL ST/A A E 373	Globalization, Poverty and Development	3	POLI SCI 348	Analysis of International Relations	3-4
INTL ST 523	International Internship	1-3	POLI SCI 351	Politics of the World Economy	3-4
JEWISH/ RELIG ST 211	Introduction to Judaism	4	POLI SCI 354	International Institutions and World Order	3-4
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4	POLI SCI 356	Principles of International Law	3-4
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4	POLI SCI 359	American Foreign Policy	3-4
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3	POLI SCI 401	Selected Topics in Political Science 1	3-4
MED HIST/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3	POLI SCI 421	The Challenge of Democratization	3-4
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
PL PATH/ BOTANY 123	Plants, Parasites, and People	3	POLI SCI/ INTL ST 431	Contentious Politics	3-4
PL PATH 311	Global Food Security	3	POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI 120	Politics Around the World	4	POLI SCI 438	Comparative Political Culture	3-4
POLI SCI 140	Introduction to International Relations	3-4	POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4	POLI SCI 455	African International Relations	3-4
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	POLI SCI 601	Proseminar: Topics in Political Science	3
POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4	POLI SCI/ RELIG ST 618	Political Islam	3-4
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4	POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4
POLI SCI 321	Latin-American Politics	3-4	POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4
			POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
			RELIG ST 101	Religion in Global Perspective	3

<sup>1</sup> Approved topics: Political Economy of Development, Comparative Foreign Policy, and German Politics

## CALS CAPSTONE LEARNING EXPERIENCE REQUIREMENT

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

A Capstone Experience should:

- Develop problem solving skills
- Expose student to multidisciplinary approach
- Develop teamwork and interpersonal skills, including the ability to communicate effectively to multiple audiences
- Develop skills in accessing and using information resources (e.g., electronic databases, library resources, national repositories)
- Address societal, economic, ethical, scientific, and professional issues
- Communicate and extend the capstone experience via written, oral, and/or multimedia reports by each student

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

## DEGREES OFFERED

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

### B.S. DEGREE

#### B.S.—AGRICULTURAL BUSINESS MANAGEMENT

(P. 42)

#### B.S.—BIOLOGICAL SYSTEMS ENGINEERING (P. 93)

#### B.S.—DIETETICS (P. 168)

#### B.S.—LANDSCAPE ARCHITECTURE (P. 149)

The B.S. degree program provides a broad and general foundation for two dozen majors in the college: agricultural and applied economics, agronomy, animal science, biochemistry, biology, community and environmental sociology, dairy science, entomology, environmental sciences, food science, forest science, genetics, horticulture, landscape architecture, life sciences communication, microbiology, nutritional sciences, poultry science, plant pathology, soil science, and wildlife ecology.

## MULTIPLE DEGREES OR MAJORS

Under certain circumstances it may be possible for a student to earn more than one undergraduate major or degree. It is expected that the programs be significantly different from each other and that approval be received prior to the student having earned 86 credits. More information is available below and via Academic Affairs in 116 Agricultural Hall.

### SECOND BACHELOR OF SCIENCE DEGREE REQUIREMENTS

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

Those who have been out of school for one semester or more must apply for admission (or readmission) with the regular undergraduate application. Continuing UW–Madison students do not need to submit this form. All candidates need a dean's permission from the Office of

Academic Affairs to work toward a second bachelor's degree. A minimum of a 2.0 GPA is required. Several college majors require a higher GPA.

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

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

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

## EARNING TWO UNDERGRADUATE DEGREES SIMULTANEOUSLY

A student who wishes to earn **two undergraduate degrees simultaneously** (in contrast to earning two undergraduate **majors** simultaneously) should consult with the Office of Academic Affairs as early as possible in the academic career regarding feasibility.

**If the two degrees to be earned are within the College of Agricultural and Life Sciences**, at least 30 additional credits and all course and grade point requirements must be completed. Thus, a minimum of 150 credits (for most majors) would be required. Some courses may satisfy requirements for both degrees. **A student must have an advisor in both major fields.** To work on two degrees simultaneously within the college, a student should seek permission as *early* as possible to ensure that it is feasible to complete both degrees.

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

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

Special applications and additional information pertaining to the earning of two undergraduate degrees simultaneously are available from the Office of Academic Affairs, 116 Agricultural Hall.

## EARNING TWO UNDERGRADUATE MAJORS SIMULTANEOUSLY

CALS permits undergraduates to pursue two CALS majors simultaneously. The following policies and procedures have been established for this program:

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

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

## EARNING A LETTERS AND SCIENCE MAJOR WHILE COMPLETING A DEGREE PROGRAM IN THE COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

The College of Letters & Science (L&S) permits undergraduates currently enrolled in the College of Agricultural and Life Sciences to complete an additional undergraduate major offered by L&S and have this fact noted on the transcript.

The following policies and procedures have been established for this program:

1. The student must have advance approval from their CALS major advisor, their L&S major advisor, and the Associate Dean for Academic Affairs in the Office of Academic Affairs in CALS. This approval must be granted before the student has earned 86 credits.
2. The L&S major is not to substitute for any major in CALS.
3. The student must satisfy all requirements of the L&S major, both the requirements established by the department (i.e., certain courses) and those established by L&S (e.g., 15 credits of advanced work in the major in residence at UW–Madison). The student must meet all CALS general course requirements and the degree program requirements, as well as all major field requirements.
4. Requests for substitutions or other modifications of the requirements of a given L&S major must be acted on by an L&S dean, in consultation with the Associate Dean for Academic Affairs in CALS, before enrollment in the course.

## FARM AND INDUSTRY SHORT COURSE

The Farm and Industry Short Course (FISC) (<https://fisc.cals.wisc.edu>) is a non-degree course of instruction at the University of Wisconsin–Madison, intended to prepare students for careers in production agriculture and agribusiness. The 16-week session is comprised of two 8-week terms that begin in late fall and end in early spring to coincide with the non-growing season in Wisconsin.

Instructors consist of CALS professors and industry professionals who teach over 30 courses in the areas of soils, crops, dairy, meat animals, agricultural engineering, agribusiness, human relations, marketing, and communications. A complete list of courses is available online (<https://fisc.cals.wisc.edu/prospective-students/courses-and-certificates>).

**All students earn a first-year certificate in Foundations of Farm Management** and can return for an optional second year to earn one of five specialty certificates:

1. Crops and Soils Management
2. Dairy Farm Management
3. Farm and Equipment Operations
4. Meat Animal Farm Management
5. Diversified Agricultural Operations

More than 100 CALS scholarships are available to FISC students, with about \$150,000 awarded each academic year. The range of scholarship funds given per student is \$500–\$2,000. See the program's website (<https://fisc.cals.wisc.edu/prospective-students/funding-your-education>) for more information about funding a FISC education.

FISC graduates pursue a variety of agriculture-related careers. More information about employment opportunities can be found on the website (<https://fisc.cals.wisc.edu/jobs-careers>). CALS Career Services provides information about job opportunities to FISC students and alumni through BuckyNet, and a weekly email from the FISC staff highlights additional opportunities to current students.

For more information, contact the Farm & Industry Short Course at e-mail ([fisc@cals.wisc.edu](mailto:fisc@cals.wisc.edu)) or 608-263-3918.

## SPECIAL SHORT COURSES

The College of Agricultural and Life Sciences, largely through University of Wisconsin-Extension, sponsors and conducts many special short courses for specific training or retraining in various phases of agriculture and agribusiness. There are institutes, conferences, and workshops that vary in length from one day to two weeks. Many are held on campus; others are held at various locations around the state.

The CALS Conference Services Office (<http://www.cals.wisc.edu/ccs>), 620 Babcock Drive, 608-263-1672, has information about many of these special sessions.

## RESOURCES

### STUDENT SERVICES

Staff in the Office of Academic Affairs provide a variety of services. They certify students for their respective degrees upon graduation, maintain student records, administer scholastic policies, administer college scholarships and loans, coordinate development of curricula, act on student withdrawals, counsel students about career and study opportunities, host interviews and career-related events and workshops, oversee two undergraduate housing units, operate the Farm and Industry Short Course, assist with degree audit reports, help departments plan and assess educational programs, and coordinate and maintain programs for students and staff. Special counseling is available for interested minority or disadvantaged students, students with disabilities, and students with unusual circumstances or needs.

### STUDENT ADVISING

Every student enrolled in the college has an assigned advisor. Students are expected to consult their advisors before each registration period, and are encouraged to consult their advisors throughout the year. Faculty/department staff advisors help students plan their coursework to meet their educational objectives. When students enroll in the college

as beginning freshmen or as transfer students, they are assigned an advisor in their major field of study. Advisors will talk with students about educational and career objectives and counsel them about meeting degree requirements and planning their educational programs.

Once students have decided on an area of study, their advisors will guide them toward courses in that area and advise them on how to fulfill university and college requirements. Students can change their advisor if they change their major or if they find a different advisor with interests more similar to their own. The change is made through the department or through the Office of Academic Affairs.

Students are encouraged to seek advice from university faculty and staff, in addition to their assigned advisor. There are many people on campus who are willing and able to help students; however, it is the student's responsibility to seek advice.

## CAREER SERVICES

The College of Agricultural and Life Sciences provides resources and advising for students to explore career interests and develop skills as they seek employment or admission to graduate or professional programs. CALS Career Services, located in 116 Agricultural Hall, assists students with the full time and internship search process by helping them learn how to articulate their skills and abilities to future employers and graduate/professional schools. The career services team manages the campus wide career and internship fairs held twice per year. They also arrange workshops and classroom visits on a variety of career development topics and host recruiters for networking events, on-campus interviews, and industry panel discussions. Many students secure internships and full time employment through connections with employers on campus. Students are encouraged to utilize CALS Career Services early in their undergraduate experience. See CALS Career Services (<http://www.cals.wisc.edu/students/careerservices>) for more information.

The Career Services Office is operated as a service to students. The college cannot guarantee job placement.

## INTERNATIONAL ACADEMIC OPPORTUNITIES

Today's college graduates must be prepared for the international community in which they will live and work. Study and research abroad programs offer students unique experiences which cannot be replicated on the UW–Madison campus. The College of Agricultural and Life Sciences (CALS) offers 35+ short and long-term programs in more than 20 countries, the majority of which are open to students from across campus. All programs carry UW–Madison academic credit. International academic opportunities allow students to enrich their education by experiencing other cultures and broadening their understanding of agricultural and life sciences outside the United States. CALS programs address topics such as food security and sustainable food systems, agriculture and nutrition, health care, environmental health, and climate change, among others. Students may also receive academic credit for participating in study abroad programs administered by UW's International Academic Programs (IAP) office. To search CALS and IAP program opportunities, please visit their website (<https://www.studyabroad.wisc.edu>).

The CALS study abroad team is located in the Office of Academic Affairs, 116 Agricultural Hall. Students are welcome to stop by for more information or contact us via email at [studyabroad@cals.wisc.edu](mailto:studyabroad@cals.wisc.edu).

## FINANCIAL RESOURCES

In addition to university scholarships, grants, loans, and employment available at the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) (333 East Campus Mall), scholarships and loans are available to qualified students in the College of Agricultural and Life Sciences.

## AGRICULTURAL AND LIFE SCIENCES SCHOLARSHIPS

CALS has an extensive scholarship program. All CALS students must apply every year to be considered for a scholarship. One application allows consideration for any scholarships administered by the college. The application cycle runs from early November to early February every year. Selection of recipients is determined by the CALS Scholarships and Loans Committee.

The scholarship application is available through [Scholarships@UW–Madison](mailto:Scholarships@UW-Madison) (<http://scholarships.wisc.edu/Scholarships>), which can be found through the Student Services tab in MyUW or through the Finances section of Student Center. Applicants must follow all prompts to ensure completion of the application process.

Scholarships with a financial need component require a current Free Application for Federal Student Aid (FAFSA (<http://www.fafsa.ed.gov>)) on file with the university.

## AGRICULTURAL AND LIFE SCIENCES LOANS

Several short-term loan funds have been established for students in the college. Students may borrow money for up to six months at no interest, or very low interest, provided the money is repaid when due. Students must be able to provide a specific plan for loan repayment.

No prior authorizations are needed, and the loan amount is available from the Bursar's Office on the same day the application is approved.

Applications for these short-term loans are available in the Office of Academic Affairs.

## STUDENT EMPLOYMENT

Many College of Agricultural and Life Sciences students gain valuable experience by working part-time in jobs related to their interests. Working in a laboratory is often the first step for students who are interested in conducting their own research.

Some students are hired directly by specific departments as a result of the students' interests and experience. Also, the university maintains a Student Job Center (<http://jobcenter.wisc.edu>) in the Office of Student Financial Aid, 333 East Campus Mall, to help students find part-time work.

## AGRICULTURAL AND LIFE SCIENCES STUDENT ORGANIZATIONS

Agricultural and Life Sciences students will find many organizations and clubs to meet their professional interests. Student organizations provide a vehicle for students to gain leadership experience and develop professional skills. For more information see the Registered Student Organization (RSO) Directory (<https://win.wisc.edu/organizations>) and CALS Student Organizations and Clubs (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/student-organization>).



## PREPARATION FOR PROFESSIONAL CAREERS IN VETERINARY MEDICINE AND MEDICINE

For information about preparation for professional careers in veterinary medicine and medicine, visit the Center for Pre-Health Advising (<http://www.prehealth.wisc.edu>).

## FACILITIES

The College of Agricultural and Life Sciences has outstanding facilities for student housing, instruction, and research.

The college operates two residence halls, Jorns and Humphrey halls. Those interested in this housing option should call 608-262-2270 or visit FISC Housing (<http://fisc.cals.wisc.edu/housing>).

Staff and students also make extensive use of off-campus sites such as the University Arboretum and 13 Agricultural Research Stations located throughout the state. The college includes many specialized instructional and research facilities. On-campus animal research facilities include the Biotechnology, Microbial Sciences and Biochemistry buildings, a livestock laboratory, instructional greenhouses, and a number of instructional computer labs.

The Steenbock Memorial Library (<http://steenbock.library.wisc.edu>) serves the College of Agricultural and Life Sciences with a collection of more than 600,000 books, bound journals, and government publications, and a variety of seating and study rooms for individual and group use. The library operates a public-access computer facility with a wide range of hardware and software. The building is a memorial to biochemist Harry Steenbock for his outstanding contributions to Wisconsin and to the health of humanity. Steenbock Library has received awards for its design and for its service to students, faculty, and academic staff. Steenbock Library staff help students and faculty locate reference material for their research through workshops on using the library and through personal assistance with search strategies.

## HONORS

### DEAN'S LIST

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

### CRITERIA FOR "GRADUATED WITH DISTINCTION" AND "GRADUATED WITH HIGHEST DISTINCTION"

Students who have a cumulative GPA that places them in the top 20 percent of the graduating class in the college will graduate with "Distinction"; those in the upper 5 percent, with "Highest Distinction." These students must have at least 60 credits on the Madison campus.

The notations on the student's transcript will read "Graduated with Distinction" or "Graduated with Highest Distinction." The registrar determines which students meet these criteria.

## DISTINCTIVE SCHOLASTIC ACHIEVEMENT

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

## HONORS PROGRAM

Students in the College of Agricultural and Life Sciences who want a challenging and intellectually rewarding undergraduate experience should consider the Honors Program. The program has flexibility to meet the unique needs of each student, challenge the mind of the independent thinker, and stimulate the curiosity needed for continued learning. The program was established to provide challenging and relevant experiences for high-achieving students. The objective of the program is to help students develop critical thinking abilities through specialized courses and the challenges of designing, conducting and reporting research in collaboration with faculty from one of the world's leading research institutions. Students who complete the program successfully receive an Honors designation on their diploma and wear a white stole with cardinal bars with their caps and gowns at commencement.

The CALS Honors Program (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program>) offers two different ways to earn an Honors degree designation:

1. Honors in Research or
2. Honors in the Major

For complete information contact the Office of Academic Affairs, 116 Agricultural Hall, 608-262-3003.

## AGRICULTURAL AND APPLIED ECONOMICS

The Department of Agricultural and Applied Economics (AAE) at the University of Wisconsin–Madison was founded in 1909 and was the first department of agricultural economics in the United States. The department offers two undergraduate programs—agricultural and applied economics (p. 45) and agricultural business management (p. 42). Both majors will give students a strong base in economics and how it is applied to real-world situations. The teaching and research in AAE focuses on the areas of development economics, environmental economics and managerial economics.

The department also offers two certificates to undergraduate students enrolled at the University of Wisconsin–Madison: the certificate in business management for agricultural and Life Sciences (p. 48) and the certificate in development economics (p. 50).

## DEGREES/MAJORS/CERTIFICATES

- Agricultural Business Management, B.S. (p. 42)
- Agricultural and Applied Economics, B.S. (p. 45)

- Business Management for Agricultural and Life Sciences, Certificate (p. 48)
- Development Economics, Certificate (p. 50)

## PEOPLE

### PROFESSORS

Barham, Bradford  
 Chavas, Jean-Paul  
 Cox, Thomas  
 Coxhead, Ian  
 Deller, Steven  
 Foltz, Jeremy  
 Gould, Brian  
 Phaneuf, Daniel  
 Provencher, R. William  
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### FACULTY ASSOCIATES

Dong, Fengxia  
 Reynolds, Anne

### UNDERGRADUATE ADVISOR

Davis, Linda

#### \*AAE Affiliate Faculty

## AGRICULTURAL BUSINESS MANAGEMENT, B.S.

Today's businesses and industries in the agricultural and food sectors of the economy are growing rapidly. Agribusiness industries, such as those that supply farm inputs or process and market agricultural products, need staff who are educated in both business and agriculture. Students in agricultural business management also find employment in companies specializing in biological systems engineering, landscape architecture, biotechnology, food technology, food science, food marketing, and large-scale farm enterprises.

The bachelor of science degree program in agricultural business management enables students to obtain a strong foundation in economics to learn how businesses make decisions and minimize risk

and how to use applied mathematics and statistics to analyze prices and markets. Agricultural and applied economics (AAE) courses constitute a substantial segment of the curriculum for the B.S. degree in agricultural business management. In addition to general college requirements, a major in ABM includes courses in economics, math, and statistics. ABM students will also take a minimum of 12 credits from the School of Business. (See Requirements tab for more information.)

Agricultural business management emphasizes coursework in the functional areas of the business school: accounting, finance, marketing, management, and human resources.

Code	Title	Credits
<b>Students will learn:</b>		
	Skills for running a business	
	Finance and economic decision analysis	
	Analytical and managerial tools	
	Organization of the food system	
	Commodity markets	
	Senior capstone project integrates learning from major coursework	

A degree in agricultural business management prepares students for a career in agribusiness or other fields of business. The Department of Agricultural and Applied Economics may be consulted for specific career information for the major.

Students completing the agricultural business management major are awarded the *Bachelor of Science–Agricultural Business Management* degree.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CAL S). For information about becoming a CAL S first-year or transfer student, see Entering the College (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
Select one of the following:		3-4
ECON 310	Statistics: Measurement in Economics	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	6
SOC/C&E SOC 360	Statistics for Sociologists I	4
PSYCH 210	Basic Statistics for Psychology	3
<b>Core</b>		
A A E 215	Introduction to Agricultural and Applied Economics	3
or ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	3-4
ECON 301	Intermediate Microeconomic Theory	4
or ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
ECON 302	Intermediate Macroeconomic Theory	4
or ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
A A E 419	Agricultural Finance	3
A A E/ECON 421	Economic Decision Analysis	4
ACCT I S 100	Introductory Financial Accounting <sup>2</sup>	3
or ACCT I S 300	Accounting Principles	
Select three of the following:		9
ECON/FINANCE 300	Introduction to Finance	
GEN BUS 301	Business Law	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
MARKETNG 300	Marketing Management	
M H R 300	Managing Organizations	
M H R 305	Human Resource Management	
ACCT I S 211	Introductory Managerial Accounting <sup>1</sup>	

### Capstone

A A E 500	Senior Capstone Experience	3
Total Credits		63-65

<sup>1</sup> ACCT I S 100 is a prerequisite for ACCT I S 211.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Use economic concepts to better understand real-world problems.
2. Use appropriate quantitative techniques to analyze economic problems.
3. Use computer systems to effectively analyze economic problems.
4. Communicate results effectively in writing.
5. Communicate results effectively orally.
6. Think critically about economic issues.
7. Contribute to public policy debates.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

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

##### Freshman

Fall	Credits Spring	Credits
MATH 211 or 221 <sup>1</sup>	5 COMM B	3
COMM A <sup>2</sup>	3 Chemistry Course	4-5
A A E 215 or ECON 101 <sup>3</sup>	3-4 CALS Science Requirement	3
First Year Seminar	1 Electives	3
Electives	3	
15-16		13-14

Total Credits 28-30

##### Sophomore

Fall	Credits Spring	Credits
ECON 102	3 ECON 301	4
Statistics Course	3 ACCT I S 100 or 300	3
CALS Science Requirement	5 Electives	8
Elective	4	
15		15

Total Credits 30

##### Junior

Fall	Credits Spring	Credits
ECON 102	3 Business Core Course	6
ECON 302	4 A A E 322	3
Business Core Course <sup>5</sup>	3 Electives	6
Major Field Electives	3	
Elective	4	
17		15

Total Credits 32

##### Senior

Fall	Credits Spring	Credits
A A E 419	3 Capstone Course	3
Major Field Electives	6 Major Field Electives	3
A A E/ECON 421	4 Electives	9
Electives	3	
16		15

Total Credits 31

- <sup>1</sup> Students must complete MATH 211 Calculus or MATH 217 or MATH 221. Students may satisfy the required level of math proficiency through the math placement exam. On the other hand, this level of competence may require as many as three semesters of coursework in mathematics.
- <sup>2</sup> The communications requirement includes Communication Parts A & B. Completing this requirement early will help the students with written and oral assignments in future courses.
- <sup>3</sup> Students should complete the basic courses in economics early in their programs so that they can have greater choice in courses in the major.
- <sup>4</sup> Students should choose electives that satisfy one of the UW requirements (ethnic studies or social sciences or humanities) or the college requirements. See Requirements tab for details.
- <sup>5</sup> ABM students are required to take 9 credits from FINANCE/ ECON 300, GEN BUS 301, GEN BUS 310, GEN BUS 311, MARKETNG 300, M H R 300 (Organizational Behavior), M H R 305 (Human Resources), and ACCT I S 211.

## ADVISING AND CAREERS

For more information or to declare a major in agricultural business management, contact:

Linda Davis  
Undergraduate Student Services  
Department of Agricultural and Applied Economics

University of Wisconsin–Madison  
 424 Taylor Hall  
 427 Lorch Street  
 Madison, WI 53706  
 608-262-9488  
 linda.davis@wisc.edu

## PEOPLE

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 Reynolds, Anne

### UNDERGRADUATE ADVISOR

Davis, Linda

### \*AAE Affiliate Faculty

## AGRICULTURAL AND APPLIED ECONOMICS, B.S.

Students develop and use economic data and models to analyze and understand a wide range of issues—including environmental problems, world hunger, energy and climate change, business economics and finance, economic development, globalization and trade, biotechnology, land-use management, and community development. Course subjects include economics, environmental economics, managerial economics, financial management, commodities and futures markets, the global economy, development in Latin America, Africa, and Asia, cooperatives, international trade, pollution, and regulation. Students acquire the

necessary skills to pursue a rewarding career in consulting, government, business, or international organizations, or a graduate degree in economics, public policy, business or law.

Major requirements usually met in the freshman and sophomore years are: A A E 215, ECON 102, an elementary course in statistics, and one semester of calculus (MATH 211, MATH 217 or MATH 221).

Other major requirements are: ECON 301 and ECON 302, A A E 500 (a “capstone” course), and a minimum of 15 additional credits in AAE courses. Students may select an area of concentration within the major from four choices: Applied Economics, Development Economics, Environmental Economics or Managerial Economics. These 15 credits are selected by the student with the assistance of an advisor and must be at the 200 level or above (does not include A A E 215, A A E 299 or A A E 500).

Students completing the agricultural and applied economics major are awarded the bachelor of science degree.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CAL S). For information about becoming a CAL S first-year or transfer student, see Entering the College (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW—Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
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### Mathematics and Statistics

This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.

Select one of the following: 5

MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	

Select one of the following: 3-6

ECON 310	Statistics: Measurement in Economics	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	

### Core

A A E 215	Introduction to Agricultural and Applied Economics <sup>1</sup>	3
or ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	3-4
ECON 301	Intermediate Microeconomic Theory	4
or ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
ECON 302	Intermediate Macroeconomic Theory	4
or ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	

### Concentrations within the Major

Select one of the following: 15

Applied Economics	
Development Economics	
Environmental Economics	
Managerial Economics	

### Capstone

A A E 500	Senior Capstone Experience	3
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Total Credits 40-44

<sup>1</sup> A A E 215 Introduction to Agricultural and Applied Economics only carries QR-B credit if taken fall 2011 or later.

## CONCENTRATIONS WITHIN THE MAJOR APPLIED ECONOMICS

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

<sup>1</sup> AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics or A A E 299 Independent Study.

## DEVELOPMENT ECONOMICS

Code	Title	Credits
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON 474	Economic Problems of Developing Areas	3
Select one of the following:		3
A A E/INTL ST 373	Globalization, Poverty and Development	
A A E/ECON/INTL BUS 462	Latin American Economic Development	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 477	Agricultural and Economic Development in Africa	
AAE courses, 200 level and above <sup>1</sup>		6
Total Credits		15

<sup>1</sup> AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics or A A E 299 Independent Study.

## ENVIRONMENTAL ECONOMICS

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E/ECON/ENVIR ST 343	Environmental Economics	4
Select one of the following:		3
A A E 246	Climate Change Economics and Policy	
A A E/ECON/F&W ECOL 531	Natural Resource Economics	
A A E/ECON/ENVIR ST/URB R PL 671	Energy Economics	
AAE courses, 200 level and above <sup>1</sup>		5
Total Credits		15

<sup>1</sup> AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics or A A E 299 Independent Study.

## MANAGERIAL ECONOMICS

Code	Title	Credits
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
A A E 419	Agricultural Finance	3
AAE courses, 200 level and above <sup>1</sup>		6
Total Credits		15

<sup>1</sup> AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics or A A E 299 Independent Study.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Use economic concepts to better understand real-world problems.
2. Use appropriate quantitative techniques to analyze economic problems.
3. Use computer systems to effectively analyze economic problems.
4. Communicate results effectively in writing.
5. Communicate results effectively orally.
6. Think critically about economic issues.
7. Contribute to public policy debates.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

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

##### Freshman

Fall	Credits Spring	Credits
MATH 211 or 221 <sup>1</sup>	5 COMM B	3
COMM A <sup>2</sup>	3 Chemistry Course	4-5

A A E 215 or ECON 101 <sup>3</sup>	3-4 CALS Science Requirement	3
First Year Seminar	1 Electives <sup>4</sup>	6
	12-13	16-17

Total Credits 28-30

**Sophomore**

Fall	Credits Spring	Credits
ECON 102	3 ECON 301	4
Statistics Course	3 AAE Elective	3
CALS Science Requirement	5 Electives	9
Elective	4	
	15	16

Total Credits 31

**Junior**

Fall	Credits Spring	Credits
Concentration Courses	6 Concentration Courses	3
ECON 302	4 Electives	12
Electives	6	
	16	15

Total Credits 31

**Senior**

Fall	Credits Spring	Credits
Concentration Courses	6 Capstone Course	3
Electives	9 Electives	12
	15	15

Total Credits 30

- <sup>1</sup> Students must complete MATH 211 or MATH 217 or MATH 221. Students may satisfy the required level of math proficiency through the math placement exam. On the other hand, this level of competence may require as many as three semesters of coursework in mathematics.
- <sup>2</sup> The communications requirement includes Communication Parts A & B. Completing this requirement early will help the students with written and oral assignments in future courses.
- <sup>3</sup> Students should complete the basic courses in economics early in their programs so that they can have greater choice in courses in the major.
- <sup>4</sup> Students should choose electives that satisfy one of the UW requirements (ethnic studies or social sciences or humanities) or the college requirements. See Requirements tab for details.

**ADVISING AND CAREERS**

For more information or to declare a major in agricultural and applied economics, contact:

Linda Davis  
Undergraduate Student Services  
Department of Agricultural and Applied Economics  
University of Wisconsin–Madison  
424 Taylor Hall

427 Lorch Street  
Madison, WI 53706  
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Dong, Fengxia  
Reynolds, Anne

**UNDERGRADUATE ADVISOR**

Davis, Linda

**\*AAE Affiliate Faculty****BUSINESS MANAGEMENT FOR AGRICULTURAL AND LIFE SCIENCES, CERTIFICATE**

Basic business literacy can benefit all graduates, no matter what their field or intended career. When entering the professional world, CALS students are increasingly confronted with contexts that require an understanding of basic business and management concepts. The certificate in business management for agricultural and life sciences can provide students with the business skills that employers value.

The certificate offers students in the College of Agricultural and Life Sciences (CALS) the opportunity to gain business knowledge and have it recorded on their transcript. The certificate is designed specifically for



students intending to pursue careers in agriculture and life sciences, and enrollment is open only to undergraduates currently enrolled in CALS. This professional credential is offered by the Department of Agricultural and Applied Economics, the Department of Life Sciences Communication, and the Renk Agribusiness Institute, with the collaboration of the School of Business.

## HOW TO GET IN

To declare this certificate, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 30). Contact the advisor listed under the Advising and Careers tab for more information or to declare the certificate.

## REQUIREMENTS

Code	Title	Credits
<b>Completion of the certificate requires a total of 18 credits.</b>		
<i>The following four courses are required:</i>		
A A E 215	Introduction to Agricultural and Applied Economics	3
LSC 270	Communication in Life Science Industries	3
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
<i>Select six credits from the following classes:</i>		6
A A E 319	The International Agricultural Economy	
A A E 320	Farming Systems Management	
A A E 322	Commodity Markets	
A A E 323	Cooperatives	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 526	Quantitative Methods in Agricultural and Applied Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
DY SCI 233	Dairy Herd Management I	
DY SCI 234	Dairy Herd Management II	
DY SCI 535	Dairy Farm Management Practicum	
LSC 250	Research Methods in the Communication Industry	
LSC 251	Science, Media and Society	
LSC 431	Advertising in the Life Sciences	
LSC 432	Social Media for the Life Sciences	
LSC 435	Theory and Practice of Integrated Marketing Communication	

No substitutions are allowed for the core courses. Students may count no more than two courses toward both their major requirements and these certificate requirements.

## ADVISING AND CAREERS

For more information or to declare the certificate in business management for agricultural and life sciences, contact:

Linda Davis  
Undergraduate Student Services  
Department of Agricultural and Applied Economics  
University of Wisconsin–Madison  
424 Taylor Hall  
427 Lorch Street  
Madison, WI 53706  
608-262-9488  
linda.davis@wisc.edu

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Davis, Linda

**\*AAE Affiliate Faculty**

## DEVELOPMENT ECONOMICS, CERTIFICATE

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

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

### HOW TO GET IN

The certificate in development economics is open to any undergraduate student enrolled at the University of Wisconsin–Madison. In order to declare the certificate, the student must have successfully completed A A E 215 Introduction to Agricultural and Applied Economics, ECON 101 Principles of Microeconomics, or ECON 111 Principles of Economics-Accelerated Treatment or a comparable introductory economics course. Contact the advisor listed under the Advising and Careers tab for more information or to declare the certificate.

### REQUIREMENTS

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

Code	Title	Credits
<b>The certificate requires five courses.</b>		

Complete two core courses:

A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/INTL ST 373	Globalization, Poverty and Development	3
or A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	

Select one course from the following: 3

A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ INTL ST 373	Globalization, Poverty and Development	

A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	
A A E/ECON/ INTL BUS 462	Latin American Economic Development	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 477	Agricultural and Economic Development in Africa	
<i>Select one course from the following:</i>		3
C&E SOC/ POP HLTH/ SOC 380	Contemporary Population Problems for Honors	
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/ SOC 630	Sociology of Developing Societies/Third World	
ECON 364	Survey of International Economics	
ECON 464	International Trade and Finance	
ECON 467	International Industrial Organizations	
ECON 475	Economics of Growth	
GEOG/ ENVIR ST 339	Environmental Conservation	
INTL BUS 200	International Business	
INTL BUS/ FINANCE 445	Multinational Business Finance	
INTL ST 402	Topics in Politics and Policy in the Global Economy	
POLI SCI 348	Analysis of International Relations	
POLI SCI 350	International Political Economy	
POLI SCI 351	Politics of the World Economy	
<i>Select one additional course from any of the courses listed above</i>		3
<b>Total Credits</b>		<b>15</b>

A student may combine this certificate with any other certificate and/or major. However, students with a major in agricultural and applied economics, a major in economics, or a major in the Politics and Policy in the Global Economy option in international studies may count no more than 6 credits toward both their major requirements and the requirements for the certificate in development economics.

### ADVISING AND CAREERS

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

Linda Davis  
Undergraduate Student Services  
Department of Agricultural and Applied Economics  
University of Wisconsin–Madison  
424 Taylor Hall  
427 Lorch Street  
Madison, WI 53706  
608-262-9488  
linda.davis@wisc.edu

## PEOPLE

### PROFESSORS

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 Chavas, Jean-Paul  
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 Foltz, Jeremy  
 Gould, Brian  
 Phaneuf, Daniel  
 Provencher, R. William  
 Rutherford, Thomas  
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### ASSOCIATE PROFESSORS

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 Grainger, Corbett  
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### FACULTY ASSOCIATES

Dong, Fengxia  
 Reynolds, Anne

### UNDERGRADUATE ADVISOR

Davis, Linda

\*AAE Affiliate Faculty

## AGRICULTURAL AND LIFE SCIENCES —COLLEGE-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, B.S. (p. 51)

## INDIVIDUAL MAJOR, B.S.

The individual major is a flexible program for undergraduates in the College of Agricultural and Life Sciences who want to attain a specific academic goal that is not easily attained through a major in one or more departments. The major must involve courses from several departments, must be at least as rigorous as a regular departmental major, and must be targeted at a special intellectual problem or academic need identified by the student. The individual major must be approved by a

faculty committee and the CALS Curriculum Committee. Approval is not guaranteed, so students should be prepared to pursue alternative options and are encouraged to discuss these with their advisor.

The individual major is available in the bachelor of science degree program. The transcript will indicate "Individual Major" until the degree is awarded. It will then show the exact name of the approved "individual major."

Students are strongly encouraged to consult with an assistant dean in the CALS Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion.

## HOW TO GET IN

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

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

If the faculty committee approves the plan, the student should work with CALS Academic Affairs to submit the plan of study to the CALS Curriculum Committee along with a letter of support from the major advisor and a summary of the department discussion of the plan. The student and faculty advisor will meet with the Curriculum Committee to present the proposal. The Curriculum Committee may approve the proposal, reject the proposal, or ask for further clarification and resubmission. The decision of the Curriculum Committee is final. Any changes in the major must be approved by the faculty advisor and reported to the Office of Academic Affairs, and any changes that significantly affect the nature or rigor of the program must be reviewed and approved by the Curriculum Committee.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I	
	or CHEM 108 Chemistry in Our World	
	or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## INDIVIDUAL MAJOR REQUIREMENTS DEVELOPMENT OF THE INDIVIDUAL MAJOR

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

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

### APPROVAL OF THE INDIVIDUAL MAJOR

Once the plan of study is developed, the student submits the plan to the faculty committee for review and approval. The faculty committee must consult with the department with the most courses in the proposed major. The faculty committee may require revisions prior to approval. Once approved, the student should work with CALS Academic Affairs to submit the plan of study to the CALS Curriculum Committee along with a letter of support from the major advisor and a summary of the department discussion of the plan. The student and faculty advisor will meet with the curriculum committee to present the proposal. The curriculum committee may approve the proposal, reject the proposal, or ask for further clarification and resubmission. The decision of the curriculum committee is final. Any changes in the major must be approved by the faculty advisor and reported to the Office of Academic Affairs, and any changes that significantly affect the nature or rigor of the program must be reviewed and approved by the curriculum committee.

## UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## ADVISING AND CAREERS

Students are strongly encouraged to consult with an assistant dean in the Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion.

Students are required to identify a faculty advisor as part of the process for requesting approval to pursue an individual major. The faculty advisor serves as the student's academic advisor along with support from the other members of the student's faculty committee. Additionally, students must work closely with an assistant dean in Academic Affairs throughout development and completion of the major.

## AGRONOMY

Agronomy is plant biology striving to meet the world's expanding need for food, fiber, and fuel in an efficient, environmentally sound, and sustainable manner.

An undergraduate student majoring in agronomy earns a bachelor of science degree. The agronomy curriculum offers undergraduate and graduate studies in plant biotechnology, breeding, genetics, physiology, crop management and protection strategies, agroecology, and sustainable agriculture. Agronomy undergraduate students concentrate on plant science courses but also select related courses in soil science, genetics, economics, business, engineering, entomology, and the animal sciences depending upon their interests.

The current demand for agronomy graduates exceeds supply, and we expect the demand to increase. Career possibilities include biotechnology, research, agri-business, resource conservation, and crop production and management. In addition to classroom learning, students gain practical experience in their area of interest and earn degree credit at the same time through internships and independent study. The agronomy major also serves as an excellent foundation for students interested in pursuing advanced studies in plant biotechnology, breeding, genetics, physiology, crop management, agroecology, or sustainable agriculture. Graduate programs are described in the *Graduate Guide*.

## DEGREES/MAJORS/CERTIFICATES

- Agronomy, B.S. (p. 53)

## PEOPLE

### PROFESSORS

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 Picasso, Valentin (picassorriso@wisc.edu)

## RESOURCES AND SCHOLARSHIPS

The Department of Agronomy is proud to participate in the CALS Scholarship Program, which awards thousands of dollars to undergraduate scholars every year. The majority of our students have some form of financial aid through CALS, the university, or work-study or laboratory jobs.

## AGRONOMY, B.S.

### CREATING A HEALTHIER, MORE PRODUCTIVE, MORE RESILIENT AGRICULTURE FOR WISCONSIN AND THE WORLD.

That is the challenge taken up by the faculty, staff and students of the Department of Agronomy.

We generate and apply knowledge about the plants that feed and benefit humankind. Agronomic crops are typically grown for grain to feed people and livestock, or are processed into products. Feed crops are grown specifically to meet the nutritional needs of livestock. Forage crops are grown for their stems, leaves, and other edible plant parts.

We find and implement solutions to problems and opportunities concerning efficiency and sustainability of crop production and in safe and environmentally sound ways.

We generate knowledge on the genetics, genomics, biochemistry, and physiology of plants.

We study the interactions among cropping systems, climate, and the environment. We emphasize sustainable agriculture, whether precision, traditional or organic, in order to reduce the impact on the environment and the inhabitants of our planet.

We work to ensure that agricultural systems and products in Wisconsin and the world are able to meet rapidly-changing needs and those of future generations.

Undergraduates in the Department of Agronomy earn a bachelor of science degree to prepare them for everything from pursuit of a graduate degree to careers in science, education, agriculture, agribusiness, and environment and conservation.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		3
MATH 112	Algebra	
& MATH 113	and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	5
MATH 211	Calculus	5
MATH 221	Calculus and Analytic Geometry 1	5
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	

STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following:		4-5
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
<b>Economics</b>		
Select one of the following:		3-4
A A E 215	Introduction to Agricultural and Applied Economics	
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Foundation</b>		
Select 8 credits from any foundation category		8
<b>Core</b>		
AGRONOMY 100	Principles and Practices in Crop Production	
SOIL SCI 301	General Soil Science	
PL PATH 300	Introduction to Plant Pathology	
Select one of the following:		3
GENETICS 466	Principles of Genetics	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
Select one of the following:		
ENTOM/ ZOOLOGY 302	Introduction to Entomology	
ENTOM 351	Principles of Economic Entomology	
Select one of the following:		3-4

AGRONOMY/ BOTANY/SOIL SCI 370	Grassland Ecology	
BOTANY/F&W ECOL 455	The Vegetation of Wisconsin	
BOTANY/F&W ECOL/ZOOLOGY 460	General Ecology	
ENTOM 342	Insect Ecology	
ENVIR ST/LAND ARC 361	Wetlands Ecology	
<b>Electives within the Major</b>		
Select 14 additional credits of Agronomy <sup>1</sup>		14
<b>Capstone</b>		
AGRONOMY 500	Senior Capstone Experience <sup>2</sup>	2
Total Credits		68-71

<sup>1</sup> No more than 3 credits total in AGRONOMY 299 Independent Study, AGRONOMY 399 Coordinative Internship/Cooperative Education, AGRONOMY 699 Special Problems. Credits used to satisfy the Capstone experience may not count here. Recommended agronomy electives: BOTANY 300 Plant Anatomy, BOTANY 500 Plant Physiology.

<sup>2</sup> Requires AGRONOMY 399 Coordinative Internship/Cooperative Education or AGRONOMY 699 Special Problems as a prerequisite.

## FOUNDATION COURSES

### AG SOCIAL SCIENCE

Code	Title	Credits
A A E 319	The International Agricultural Economy	3
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
A A E 323	Cooperatives	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 474	Economic Problems of Developing Areas	3
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	3
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	3
C&E SOC/AMER IND/ SOC 578	Poverty and Place	3
C&E SOC/SOC 650	Sociology of Agriculture	3

### ANIMAL SCIENCE

Code	Title	Credits
AN SCI/DY SCI 101	Introduction to Animal Sciences	4
AN SCI 200	The Biology and Appreciation of Companion Animals	3
AN SCI 250	Horse Science and Management	3
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI 430	Sheep Production	3

AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
DY SCI 205	Dairy Cattle Selection	2
DY SCI 305	Lactation Physiology	3
DY SCI/AN SCI 361	Introduction to Animal and Veterinary Genetics	2
DY SCI/AN SCI 363	Principles of Animal Breeding	2
DY SCI/AN SCI 370	Livestock Production and Health in Agricultural Development	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
ENTOM 351	Principles of Economic Entomology	3

## ATMOSPHERIC SCIENCE

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3

## BIOLOGICAL SYSTEMS ENGINEERING

Code	Title	Credits
BSE 201	Land Surveying Fundamentals	1
BSE 216	Irrigation Systems - Design and Use	1
BSE 243	Operating and Management Principles of Off-Road Vehicles	3

## FOOD SCIENCE

Code	Title	Credits
FOOD SCI 120	Science of Food	3
FOOD SCI 440	Principles of Food Engineering	3
A A E/C&E SOC/ SOC 340	Issues in Food Systems	3-4
NUTR SCI/ BIOCHEM 510	Biochemical Principles of Human and Animal Nutrition	3

## MANAGEMENT

Code	Title	Credits
ACCT I S 211	Introductory Managerial Accounting	3
ACCT I S 301	Financial Reporting I	3
ACCT I S 302	Financial Reporting II	3
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
A A E 323	Cooperatives	3
A A E 419	Agricultural Finance	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 474	Economic Problems of Developing Areas	3
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
FINANCE/ECON 300	Introduction to Finance	3
INTL BUS 200	International Business	3
MARKETNG 305	Consumer Behavior	3
MARKETNG 310	Marketing Research	3

MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
MARKETNG 460	Marketing Strategy	3
MARKETNG 635	Sales Management	3
MARKETNG 640	Strategic Retailing	3
M H R 420	Managing Change and Organizational Effectiveness	3
M H R 422	Entrepreneurial Management	3
M H R 612	Labor-Management Relations	3
R M I 300	Principles of Risk Management	3

## NUTRITIONAL SCIENCE

Code	Title	Credits
NUTR SCI 132	Nutrition Today	3
NUTR SCI/AN SCI/ DY SCI 311	Comparative Animal Nutrition	3
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI/A A E/ AGRONOMY/INTER- AG 350	World Hunger and Malnutrition	3
NUTR SCI 540	Community Nutrition Programs and Policy Issues	1

## SOIL SCIENCE

Code	Title	Credits
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 325	Soils and Landscapes	3

## BACTERIOLOGY, BIOCHEMISTRY, GENETICS

Code	Title	Credits
MICROBIO 101	General Microbiology	3
MICROBIO 102	General Microbiology Laboratory	2
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	2
MICROBIO/ FOOD SCI 325	Food Microbiology	3
BIOCHEM 501	Introduction to Biochemistry	3
GENETICS 466	Principles of Genetics	3

## ECOLOGICAL SCIENCES

Code	Title	Credits
F&W ECOL 100	Introduction to Forestry	2
F&W ECOL 318	Principles of Wildlife Ecology	3
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin	4
F&W ECOL/BOTANY/ ZOOLOGY 460	General Ecology	4
F&W ECOL 550	Forest Ecology	3



# UNIVERSITY DEGREE REQUIREMENTS

## Requirements Detail

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

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

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

## LEARNING OUTCOMES

- Students will be able to articulate the role of biological processes, management systems, environmental influences, and economic and social factors on world food, feed, and fiber production. Specific topics that all students should have knowledge of include: photosynthesis, nutrient cycling, genetic inheritance, and management and uses of primary U.S. crop species.
- Students will develop a global perspective and appreciate the interdependencies among individuals and their workplaces, communities, environments, and the planet; and an understanding of the role of science in society.
- Students will communicate effectively through writing and speaking, and will be able to identify and critically evaluate available sources of information.
- Students will demonstrate the ability to critically and creatively analyze problems and evaluate systems.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE AGRONOMY FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
AGRONOMY 100	4 BOTANY/BIOLOGY 130	5
CHEM 103 or 109	4-5 CHEM 104 (or Elective)	5 (3)
MATH 112, 114, or 171 <sup>1</sup>	3-5 Elective	3
COMM A	3 ECON 101, 111, or A A E 215	3-4

First Year Seminar	1	
	15-18	11-17

Total Credits 26-35

##### Sophomore

Fall	Credits Spring	Credits
Foundation Course <sup>2</sup>	3 Foundation Courses	5
ZOOLOGY/BIOLOGY 101 or 102	2-3 Social Science Course	3
Statistics Course	3 Agronomy Course <sup>3</sup>	3
Ethnic Studies Course	3 COMM B	3
	11-12	14

Total Credits 25-26

##### Sophomore

Summer	Credits
Internship or Agronomy Independent Study	1-3
	1-3

Total Credits 1-3

##### Junior

Fall	Credits Spring	Credits
Agronomy Courses	6 ENTOM/ZOOLOGY 302 or 351	3-4
GENETICS 466	3 Agronomy Course	3
SOIL SCI 301	4 International Studies Course	3
Elective	3 Humanities Elective Course	3
	Elective	3
	16	15-16

Total Credits 31-32

##### Junior

Summer	Credits
Internship or Agronomy Independent Study	1-3
	1-3

Total Credits 1-3

##### Senior

Fall	Credits Spring	Credits
Agronomy Course	3-4 Agronomy Courses	6-7
ZOOLOGY/BOTANY/ F&W ECOL 460	4 Capstone	2
PL PATH 300	4 Electives	6-9
Humanities Course	3	
Elective	3	
	17-18	14-18

Total Credits 31-36

<sup>1</sup> Determined by placement exam. Consult SOAR advisor.

<sup>2</sup> Eight (8) credits of Foundation courses required. See Requirements tab for details.

<sup>3</sup> Fourteen (14) credits of agronomy electives required. See Requirements tab for details.

## ADVISING AND CAREERS

### ADVISING

The agronomy department is faculty-advised, meaning that faculty members take on the responsibility of guiding and advising undergraduates through graduation. Students and faculty are matched as closely as possible by interest. All new freshmen and transfer students are temporarily advised by the student services coordinator until the advising relationship between professor and student is established. If you would like to have a conversation about joining the agronomy department, please contact Joanna Schuth.

Joanna Schuth  
Student Services Coordinator  
608-262-1390  
jschuth@wisc.edu

### FACULTY UNDERGRADUATE ADVISORS

Ken Albrecht  
kaalbrec@wisc.edu

Natalia De Leon  
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Shawn Kaeppler  
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Valentin Picasso  
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Dave Stoltenberg  
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William Tracy  
wftracy@wisc.edu

### CAREERS

An agronomy degree is an open door to careers in many related fields such as biotechnology, plant genetics, crop management, agricultural financial management, farming, seed sales, crop consulting, Certified Crop Advising, Certified Professional Agronomy, agribusiness, extension agronomy, agricultural education, government work, and international agronomy.

### GENETICS

The fastest growing sector of agriculture is plant breeding, genetics, and genomics. Plant scientists are working at the field, plant, cellular, and molecular level to create cultivars that are hardier, disease resistant, nutritious, and affordable. The industry's growth is currently outstripping the rate of graduation; graduates can take their pick of interesting, fulfilling careers in the public and private sectors.

### BIOFUELS

The biofuel industry is also experiencing rapid growth, with research and development being focused on sugar-based biofuels, cellulosic biofuels, and biodiesels, made from plants as varied as switchgrass, sugar cane,

corn, and wood pulp. These energy crops are harvested and processed into alternatives to fossil fuels.

### AGRIBUSINESS

In agribusiness agronomists take data and translate it into real world applications. They sell tools for crop production, provide agricultural loans, consult on crops, manage businesses, and much more. They are often responsible for translating technical research data into applications. Numerous agronomy graduates are also involved in the sale of agricultural products, which are vital to today's economy. Other successful agronomists serve as crop advisers, farm managers, consultants, bank loan specialists, managers, and much more.

### RESEARCH/EDUCATION AND EXTENSION

Agronomic educators specialize in teaching and working with high school and college students. They also teach and advise students who chose advanced studies for a master's degree and/or Ph.D. They are extensively involved in research, publishing findings on a regular basis and making scientific advances.

Extension agronomists usually work for a state, local, or national government; they consult with farmers and others to help find answers to their specific problems and help farmers translate research results into usable management practices. Government-employed agronomists also work with farmers and ranchers to plan for soil and water conservation so crops and land can be managed efficiently and with minimal impact to the environment.

## PEOPLE

### DEPARTMENT MANAGER

Sandy Bennett  
skbennet@wisc.edu  
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### STUDENT SERVICES

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### FINANCIAL SPECIALIST

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### ADMINISTRATIVE SERVICES

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### PROFESSORS

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Valentin Picasso  
picassorriso@wisc.edu

## ANIMAL SCIENCES

The Department of Animal Sciences was formed as the union of the departments of Meat and Animal Science and Poultry Science in 1996. Majors in both animal sciences and poultry science are available.

## DEGREES/MAJORS/CERTIFICATES

- Animal Sciences, B.S. (p. 59)

- Poultry Science, B.S. (p. 63)

## PEOPLE

### PROFESSORS

Albrecht, Claus, Cook, Crenshaw (chair), Gianola, Khatib, Kirkpatrick, Parrish, Reed, Richards, Rosa, Schaefer, Thomas

### ASSOCIATE PROFESSOR

Sindelar (Extension)

### ASSISTANT PROFESSOR

Shanmuganayagam

### INSTRUCTIONAL STAFF

Barry, Kean, Monson, O'Rourke, Russell, Sandberg

## ANIMAL SCIENCES, B.S.

Animal science students focus on the biology of domesticated animals, including cattle, goats, horses, poultry, sheep, swine, as well as meat derived from the traditional meat animal species. Some attention is directed toward the companion animal species, including dogs and cats. The major emphasizes integration of biological principles from the gene to the organ to the herd or flock. Core courses in the major include animal breeding, veterinary genetics, animal physiology, reproductive physiology, comparative animal nutrition, animal health, and meat science. Additional courses include career orientation, animal handling, assessing animal welfare, biology of companion animals, composition of meat animals, human/animal symbiosis, ruminant nutrition, monogastric nutrition, sheep production, beef cattle production, swine production, equine business, livestock production in agricultural development, and laboratory techniques in mammalian gamete and embryo biology.

The major offers a science track which includes math, physics, organic chemistry and biochemistry for students with interests in postgraduate work in veterinary medicine, medicine, animal science or other graduate programs. The major also offers a business emphasis which includes economics, accounting, marketing, farm management, commodity markets, agricultural finance, and other courses from the School of Business.

Career opportunities exist in the meat, artificial insemination, feed, agribusiness, agri-marketing and biotechnology industries. Occasionally, students have found positions within zoos. All students receive individualized attention from their academic advisor. The Department has several livestock- and meat-related scholarships. Internships and research experience are encouraged. Numerous graduates have completed double majors with Life Science Communication, Poultry Science, Genetics, and departments outside of CALS such as Spanish, according to the interests and aspirations of the student.

A student majoring in animal sciences is placed in the bachelor of science degree program. Completion of the degree program in four years is the norm.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly,

courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
First Year Seminar (p. 33)		1
International Studies (p. 33)		3
Physical Science Fundamentals		4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam): <sup>1</sup>		5-6
MATH 112	Algebra	
& MATH 113	and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3-4
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following:		5-10
CHEM 103	General Chemistry I	
& CHEM 104	and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
& CHEM 116	and Chemical Principles II	
<b>Biology</b>		
Select one of the following:		13
Option 1:		

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
Option 2:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
GENETICS 466	Principles of Genetics	3
<b>Animal Sciences Core</b> <sup>2</sup>		
AN SCI/DY SCI 101	Introduction to Animal Sciences	4
AN SCI/FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
Select one of the following: 2		
AN SCI/DY SCI 362	Veterinary Genetics	
AN SCI/DY SCI 363	Principles of Animal Breeding	
Select one of the following: 3		
AN SCI/DY SCI 373	Animal Physiology	
AN SCI/DY SCI 434	Reproductive Physiology	
<b>Animal Science Depth</b>		
Select 12 credits from animal science depth courses <sup>2</sup>		12
<b>Emphasis</b>		
Select an emphasis		24-25
<b>Capstone</b>		
AN SCI 435	Animal Sciences Proseminar	2
Total Credits		88-96

<sup>1</sup> Science Emphasis students may choose to complete MATH 171 Calculus with Algebra and Trigonometry I and MATH 217 Calculus with Algebra and Trigonometry II in place of MATH 114 Algebra and Trigonometry and MATH 221 Calculus and Analytic Geometry 1.

<sup>2</sup> A course cannot be used for credit in both the Core and Depth within Major sections.

## DEPTH COURSES

Code	Title	Credits
Select 12 credits from the following:		
AN SCI 220	Growth, Composition and Evaluation of Meat Animals	4
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development <sup>1</sup>	3
AN SCI/DY SCI 362	Veterinary Genetics	2
or AN SCI/DY SCI 363	Principles of Animal Breeding	
Select one of the following:		3
AN SCI/DY SCI 373	Animal Physiology <sup>2</sup>	
AN SCI/DY SCI 434	Reproductive Physiology	
AN SCI 444	Laboratory Techniques in Mammalian Gamete and Embryo Biology	
AN SCI/DY SCI 414	Ruminant Nutrition	2
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 430	Sheep Production	3
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI 433	Equine Business & Management	3
AN SCI/FOOD SCI 515	Commercial Meat Processing	2
Up to 3 credits from courses listed below can go toward the required 12 credits of depth:		3
AN SCI 399	Coordinative Internship/Cooperative Education	
AN SCI 681	Senior Honor Thesis	
AN SCI 682	Senior Honors Thesis	
AN SCI 699	Special Problems	

<sup>1</sup> Meets CALS International Studies requirement.

<sup>2</sup> PHYSIOL 335 Physiology can substitute for AN SCI/DY SCI 373 Animal Physiology in the An Sci Depth section only.

## EMPHASIS COURSES

### SCIENCE EMPHASIS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
PHYSICS 103	General Physics	4
CHEM 343	Introductory Organic Chemistry	3
BIOCHEM 501	Introduction to Biochemistry	3
or BMOLCHEM 503	Human Biochemistry	
Select 9 credits from the following:		9
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Intermediate Organic Chemistry	

MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
M M & I/ MICROBIO/PATH- BIO 528	Immunology
PHYSICS 104	General Physics
PSYCH 449	Animal Behavior

Total Credits 24

## BUSINESS EMPHASIS

Up to two courses may be applied to Certificate in Business Mgmt. for Ag. & Life Sciences.

Code	Title	Credits
A A E 215	Introduction to Agricultural and Applied Economics <sup>1</sup>	3
or ECON 101	Principles of Microeconomics	
Select one of the following:		3
M H R 305	Human Resource Management	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
Select one of the following:		3
BMOLCHEM 314	Introduction to Human Biochemistry	
CHEM 341	Elementary Organic Chemistry	
BIOCHEM 501	Introduction to Biochemistry	
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
Select 9 credits from the following:		9
A A E 419	Agricultural Finance	
ACCT I S 100	Introductory Financial Accounting	
or ACCT I S 300	Accounting Principles	
AGRONOMY/ HORT/SOIL SCI 326	Plant Nutrition Management	
ECON/FINANCE 300	Introduction to Finance	
M H R 300	Managing Organizations	
MARKETNG 300	Marketing Management	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry 1	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
PHYSICS 103	General Physics	
SOIL SCI 301	General Soil Science	
Total Credits		24

<sup>1</sup> A A E 215 Introduction to Agricultural and Applied Economics not accepted as a prerequisite for some advanced Business courses. A A E 215 carries only QR-B credit if taken fall 2011 or later.

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take AN SCI 681 Senior Honor Thesis and AN SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- 1. Knowledge and comprehension.** Our students develop the working vocabulary of an animal scientist, a working knowledge of the basic anatomy, biochemistry, physiology, and genetics of animal and meat biology, and the applied nutrition, breeding, product harvest and processing skills, necessary to manage animal production systems. Students demonstrate their knowledge through rigorous examination and demonstration through hands-on instructional laboratory activities.
- 2. Analytical processing.** Our students develop the ability to reduce complex datasets and scientific information into meaningful relationships and correlations, and using the scientific literature, they can develop hypotheses to test the cause of predicted relationships using the scientific method. Students demonstrate these skills through a senior capstone experience and through individualized research opportunities and instructional activities.
- 3. Integration for application.** When faced with real world problems which they have never confronted, our students are able to apply their knowledge to develop solutions. In addition, our students are capable of identifying problems yet to be investigated and in need of advanced study. The student's ability to integrate and apply their knowledge is demonstrated through our internship programs, animal related job experiences, club activities, and problems sets that students solve in exams and laboratory settings.
- 4. Critical thinking.** Students find their sources of information using peer reviewed research articles. They learn not only to question popular press, but understand that even in the scientific literature

there are contradictory findings. They have the capacity to synthesize scientific literature such that they can communicate a position backed with strong scientific support. These skills are demonstrated through the reading, writing and discussion of science-based papers in key courses during their educational process and through an oral presentation in their capstone course.

5. **Effective communication.** Students graduate from our department with the ability to communicate, both in writing and orally, the science behind the biology and management of domestically farmed animals. Their communications provide new insights into animal production, and are explained in a manner fitting with the audience. Our students' ability to communicate is measured by their effectiveness in presenting research posters and presentations, their analysis of the literature in papers and presentations in class and during their senior capstone course.

## FOUR-YEAR PLAN

### Freshman

Fall	Credits Spring	Credits
AN SCI/DY SCI 101	4 CHEM 104	5
CHEM 103	4 Social Science	3-4
MATH 114 or 112 <sup>1</sup>	3-5 AN SCI Elective	1-3
COMM-A	3 MATH 113 (or Elective)	3
First-Year Seminar	1 Humanities	3
	15-17	15-18

### Sophomore

Fall	Credits Spring	Credits
ZOOLOGY/BIOLOGY/ BOTANY 151	5 Emphasis Course	3
Emphasis Course <sup>2</sup>	3 Emphasis or Depth Course	3
Ethnic/International Studies	3 AN SCI/FOOD SCI 305	4
Emphasis or Depth Course	3-4 ZOOLOGY/BIOLOGY/ BOTANY 152	5
	14-15	15

### Junior

Fall	Credits Spring	Credits
Emphasis Course	3 AN SCI/DY SCI/ NUTR SCI 311	3
STAT 371	3 An Sci Depth <sup>3</sup>	3
AN SCI/DY SCI 434	3 AN SCI/DY SCI 320	3
GENETICS 466	3 Emphasis Course	3
Emphasis Course	3 Select one of the following	4
	AN SCI/DY SCI 361 & AN SCI/DY SCI 362	
	AN SCI/DY SCI 361 & AN SCI/DY SCI 363	
	15	16

### Senior

Fall	Credits Spring	Credits
AN SCI 435	2 An Sci Depth	6
An Sci Depth	3 Independent Study <sup>4</sup>	1-3

Emphasis Course	4 Electives	6
Humanities	3	
COMM-B	3	
	15	13-15

Total Credits 118-126

- <sup>1</sup> If placed into MATH 112 Algebra, you must defer CHEM 103 General Chemistry I until Spring semester.
- <sup>2</sup> Choose Science or Business Emphasis; see Requirements tab for details.
- <sup>3</sup> 12 credits required; see Requirements tab for options.
- <sup>4</sup> Select from AN SCI 289 Honors Independent Study, AN SCI 699 Special Problems, AN SCI 681 Senior Honor Thesis, AN SCI 682 Senior Honors Thesis, AN SCI 299 Independent Study, or AN SCI 399 Coordinative Internship/Cooperative Education.

## ADVISING AND CAREERS

All students receive individualized advising from their academic advisors. The department has several livestock and meat-related scholarships. Internships and research experience are encouraged. Numerous graduates have completed double majors with Life Science Communication, Poultry Science, Genetics, and departments outside of CALS such as Spanish, according to the interests and aspirations of the student. Students are assigned a faculty advisor upon declaration of the major. Interested students should contact Kathy Monson (kamonson@wisc.edu) (608-263-5225) with questions.

Career opportunities exist in the meat, artificial insemination, feed, agribusiness, agri-marketing and biotechnology industries. Occasionally, students have found positions within zoos. Many students pursue graduate education in veterinary medicine, medicine, animal science, or other programs.

## PEOPLE

### PROFESSORS

Albrecht, Claus, Cook, Crenshaw (chair), Gianola, Khatib, Kirkpatrick, Parrish, Reed, Richards, Rosa, Schaefer, Thomas

### ASSOCIATE PROFESSOR

Sindelar (Extension)

### ASSISTANT PROFESSOR

Shanmuganayagam

### INSTRUCTIONAL STAFF

Barry, Kean, Monson, O'Rourke, Russell, Sandberg

## POULTRY SCIENCE, B.S.

Poultry science students focus on the biology of domestic birds, including chickens, turkeys, ducks and geese. Courses cover physiology, nutrition, and health, as well as husbandry and business management related to poultry. Processing of meat and eggs and their role as healthy foods are important aspects included in the major. The poultry science

curriculum is useful for any student who wants to learn the basics of bird biology and/or poultry production.

Career opportunities for poultry science graduates exceed the number of graduates and may be found in production, marketing, sales, and technical services for the live bird industry or its food products (meat or eggs). The Department of Animal Sciences may be consulted for specific career information and information about courses required for the Bachelor of Science degree program.

Many courses for the poultry science major are offered only during summer, when students from around the Midwest travel to UW–Madison to take poultry science courses unavailable at their home schools. The course offerings reflect the role of the UW poultry science program and its collaboration with the Midwest Poultry Consortium. Faculty from many midwestern universities assist in teaching the summer courses.

The department has numerous poultry-related scholarships available, and internships with poultry companies are strongly suggested.

A student majoring in poultry science is placed in the bachelor of science degree program. This program is flexible enough to meet the individual needs and interests of the student.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103 or CHEM 108 or CHEM 109	General Chemistry I Chemistry in Our World Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also



be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam): <sup>1</sup>		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Biology</b>		
Select one of the following options:		13
Option 1:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
Option 2:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
GENETICS 466	Principles of Genetics	3
<b>Poultry Science Core</b>		
AN SCI/DY SCI 101	Introduction to Animal Sciences	4
AN SCI 314	Poultry Nutrition <sup>2</sup>	3
AN SCI 315	Poultry Enterprise Management <sup>2</sup>	3
AN SCI 503	Avian Physiology <sup>2</sup>	3
AN SCI 508	Poultry Products Technology <sup>2</sup>	3
AN SCI 511	Breeder Flock and Hatchery Management <sup>2</sup>	3

AN SCI 512	Management for Avian Health <sup>2</sup>	3
<b>Poultry Science Depth</b>		
Select 12 credits from poultry science depth courses		12
<b>Emphasis</b>		
Select one emphasis area		24-25
<b>Capstone</b>		
AN SCI 435	Animal Sciences Proseminar	2
Total Credits		89-96

<sup>1</sup> Science Emphasis students may choose to complete MATH 171 Calculus with Algebra and Trigonometry I and MATH 217 Calculus with Algebra and Trigonometry II in place of MATH 114 Algebra and Trigonometry and MATH 221 Calculus and Analytic Geometry 1.

<sup>2</sup> Summer Midwest Poultry Consortium Center of Excellence courses, see [www.mwpoultry.org](http://www.mwpoultry.org) (<http://www.mwpoultry.org>).

## DEPTH COURSES

Code	Title	Credits
Select 12 credits from the following:		12
AN SCI 220	Growth, Composition and Evaluation of Meat Animals	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI/ FOOD SCI 321	Food Laws and Regulations	1
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
or AN SCI/ DY SCI 363	Principles of Animal Breeding	
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development <sup>1</sup>	3
AN SCI/DY SCI 373	Animal Physiology <sup>2</sup>	3
or AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
FOOD SCI 512	Principles of Food Chemistry-Lab	2
M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
ZOOLOGY/ENTOM/ M M & I/PATH-BIO 350	Parasitology	3

Up to 3 credits from courses listed below can go toward the 12 credits required:

AN SCI 399	Coordinative Internship/Cooperative Education
AN SCI 681	Senior Honor Thesis
AN SCI 682	Senior Honors Thesis
AN SCI 699	Special Problems

<sup>1</sup> Meets CALS International Studies requirement.

<sup>2</sup> PHYSIOL 335 Physiology can substitute for AN SCI/DY SCI 373 Animal Physiology.

## EMPHASIS COURSES

### SCIENCE EMPHASIS

Code	Title	Credits
BIOCHEM 501	Introduction to Biochemistry	3
CHEM 343	Introductory Organic Chemistry	3
MATH 221	Calculus and Analytic Geometry 1	5
PHYSICS 103	General Physics	4
Select 9 credits from the following:		9
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Intermediate Organic Chemistry	
FOOD SCI 410	Food Chemistry	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
M M & I/ MICROBIO/PATH- BIO 528	Immunology	
PHYSICS 104	General Physics	
Total Credits		24

### BUSINESS EMPHASIS

Code	Title	Credits
A A E 215	Introduction to Agricultural and Applied Economics <sup>1</sup>	3
or ECON 101	Principles of Microeconomics	
A A E 320	Farming Systems Management	3
A A E 322	Commodity Markets	3
M H R 305	Human Resource Management	3
BMOLCHEM 314	Introduction to Human Biochemistry	3
Select 9 credits from the following:		9
A A E 419	Agricultural Finance	
ACCT I S 300	Accounting Principles	
AGRONOMY/ HORT/SOIL SCI 326	Plant Nutrition Management	
ECON/FINANCE 300	Introduction to Finance	
MARKETNG 300	Marketing Management	
MATH 221	Calculus and Analytic Geometry 1	
M H R 300	Managing Organizations	
MICROBIO 303	Biology of Microorganisms	

MICROBIO 304	Biology of Microorganisms Laboratory
PHYSICS 103	General Physics
SOIL SCI 301	General Soil Science
Total Credits	24

<sup>1</sup> A A E 215 Introduction to Agricultural and Applied Economics not accepted as a prerequisite for some advanced business courses.

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take AN SCI 681 Senior Honor Thesis and AN SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- 1. Knowledge and comprehension.** Our students develop the working vocabulary of an animal scientist, a working knowledge of the basic anatomy, biochemistry, physiology, and genetics of animal and meat biology, and the applied nutrition, breeding, product harvest and processing skills, necessary to manage animal production systems. Students demonstrate their knowledge through rigorous examination and demonstration through hands-on instructional laboratory activities.
- 2. Analytical processing.** Our students develop the ability to reduce complex datasets and scientific information into meaningful relationships and correlations, and using the scientific literature, they can develop hypotheses to test the cause of predicted relationships using the scientific method. Students demonstrate these skills through a senior capstone experience and through individualized research opportunities and instructional activities.
- 3. Integration for application.** When faced with real world problems which they have never confronted, our students are able to apply

their knowledge to develop solutions. In addition, our students are capable of identifying problems yet to be investigated and in need of advanced study. The student's ability to integrate and apply their knowledge is demonstrated through our internship programs, animal related job experiences, club activities, and problems sets that students solve in exams and laboratory settings.

4. **Critical thinking.** Students find their sources of information using peer reviewed research articles. They learn not only to question popular press, but understand that even in the scientific literature there are contradictory findings. They have the capacity to synthesize scientific literature such that they can communicate a position backed with strong scientific support. These skills are demonstrated through the reading, writing and discussion of science-based papers in key courses during their educational process and through an oral presentation in their capstone course.
5. **Effective communication.** Students graduate from our department with the ability to communicate, both in writing and orally, the science behind the biology and management of domestically farmed animals. Their communications provide new insights into animal production, and are explained in a manner fitting with the audience. Our students' ability to communicate is measured by their effectiveness in presenting research posters and presentations, their analysis of the literature in papers and presentations in class and during their senior capstone course.

## ADVISING AND CAREERS

All students receive individualized advising from their academic advisors. Students are assigned a faculty advisor upon declaration of the major. Interested students should contact Kathy Monson (kamonson@wisc.edu, 608-263-5225) with questions.

Career opportunities for poultry science graduates exceed the number of graduates and may be found in production, marketing, sales, and technical services for the live bird industry or its food products (meat or eggs). Internships and research experience are encouraged.

## PEOPLE

### PROFESSORS

Albrecht, Claus, Cook, Crenshaw (chair), Gianola, Khatib, Kirkpatrick, Parrish, Reed, Richards, Rosa, Schaefer, Thomas

### ASSOCIATE PROFESSOR

Sindelar (Extension)

### ASSISTANT PROFESSOR

Shanmuganayagam

### INSTRUCTIONAL STAFF

Barry, Kean, Monson, O'Rourke, Russell, Sandberg

## BACTERIOLOGY

Contact Katy France, student services coordinator, 262-2975, kfrance@bact.wisc.edu, for information about the undergraduate program, declaring the microbiology major, career opportunities, and advisor assignments.

Microorganisms are the oldest life forms on earth and impact our lives and the well being of the planet in innumerable ways. The field of microbiology has become even more prominent in recent years because of increased concerns about bioterrorism, infectious disease, and environmental manipulation. The microbiology major offered by the Department of Bacteriology provides training in broad aspects of microbiology with emphasis on 21st-century laboratory skills.

Core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective courses provide the opportunity to study environmental microbiology, microbial ecology, food microbiology, host-parasitic interactions, microbial pathogenesis, immunology, virology, fermentation, and microbial biotechnology. Instructional laboratory courses provide hands-on experience with modern techniques and equipment. Students have many opportunities for independent research projects in faculty laboratories.

The bachelor's degree provides a strong background in the biological sciences for students planning to enter medical, dental, veterinary or other professional schools, as well as those planning graduate studies in any branch of microbiology or other biological sciences such as molecular or cell biology.

Students who end their training with a bachelor's degree are well prepared for a wide variety of career opportunities, including laboratory positions in pharmaceutical and biotechnology firms and in university and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process and training in microbiology itself allow microbiology graduates to enter fields as diverse as business, technical service, sales, or technical writing.

The department also serves as the administrative home for the Biology major in the College of Agricultural and Life Sciences.

## DEGREES/MAJORS/CERTIFICATES

- Biology, B.S. (CALs) (p. 67)
- Microbiology, B.S. (CALs) (p. 79)

## PEOPLE

### PROFESSORS

Currie, Donohue, Filutowicz, Forest, Gourse, Johnson, Kaspar (chair), Keller (Medical Microbiology and Immunology), Landick, Mansfield, Thomas, Yu

### ASSOCIATE PROFESSORS

Hammel, McMahon (Civil and Environmental Engineering), Suen, Wassarman, Weimer

### ASSISTANT PROFESSORS

Vetsigian, Wang

## BIOLOGY, B.S. (CALs)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain pre-professional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists, and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Agricultural and Life Sciences and the College of Letters & Science.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must declare the major, complete the common requirements below, and complete the requirements for one of the named options or "no option."

Students must complete a minimum of 31 credits from Introductory Biology, Foundation, Intermediate/Advanced, Seminar (options only) and Capstone courses.

### COMMON MAJOR REQUIREMENTS MATHEMATICS AND STATISTICS

Code	Title	Credits
	Select one of the following:	5-10

MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following: <sup>1</sup>		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

<sup>1</sup> Students completing the evolutionary biology option are required to complete either STAT 301 Introduction to Statistical Methods or STAT 371 Introductory Applied Statistics for the Life Sciences.

## CHEMISTRY

Code	Title	Credits
General Chemistry		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
Organic Chemistry		
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3

## PHYSICS

Code	Title	Credits
1st semester physics; select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
2nd semester physics, select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	

## INTRODUCTORY BIOLOGY

Code	Title	Credits
Select one of the following options: <sup>1</sup>		10-16
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	

BIOCORE 485	Organismal Biology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Foundational Course <sup>2</sup>		
Select one of the following:		3
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology <sup>3</sup>	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
GENETICS 466	Principles of Genetics	
GENETICS 468	General Genetics 2	
MICROBIO 470	Microbial Genetics & Molecular Machines	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 508	General Biochemistry II	

<sup>1</sup> For AP Biology policy, as it applies to introductory biology in the biology major, see this link (<http://biologymajor.wisc.edu/advising/advisor-resources/ap-ib-biology-policy>).

<sup>2</sup> Does not count toward intermediate/advanced courses. Students completing the evolutionary biology option must complete either GENETICS 466 Principles of Genetics or GENETICS 468 General Genetics 2 to fulfill the Foundation requirement. Students completing the plant biology option are not allowed to take MICROBIO 470 Microbial Genetics & Molecular Machines to fulfill the Foundation requirement.

<sup>3</sup> Students may use BIOCORE 381 Evolution, Ecology, and Genetics and BIOCORE 383 Cellular Biology to contribute to introductory biology and satisfy foundation.

## CAPSTONE

Code	Title	Credits
Two credits minimum required. With advisor approval, directed study or research-based senior thesis in a biological science discipline can also count. The experience must be completed after the first year of an introductory biology sequence above. Also, a subset of laboratory courses has been approved for capstone. The following courses, along with 682's and 692's in biological science departments (taken senior year), can be accepted as fulfilling the capstone experience.		
BIOCORE 486	Organismal Biology Laboratory	2
BMOLCHEM 504	Human Biochemistry Laboratory	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology (taken fall 2016 - summer 2018)	4
BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab (taken fall 2016 - summer 2018)	2

F&W ECOL 599	Wildlife Research Capstone (limited access)	3
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience (taken fall 2016 - summer 2018)	2
MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory	2
PHYSIOL 435	Fundamentals of Human Physiology	5
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY 555	Laboratory in Developmental Biology	3

## OPTIONS IN THE MAJOR

In addition to the common requirements, students must complete one of the options below. A minimum of 13 intermediate/advanced credits from the lists provided are required, which must include **one approved lab course**. Approved lab courses are indicated by footnote.

- Biology Major—No Option (p. 70)
- Evolutionary Biology Option (p. 70)
- Neurobiology Option (p. 70)<sup>1</sup>
- Plant Biology Option (p. 72)

<sup>1</sup> **Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

Students who have declared the biology major—neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

## BIOLOGY MAJOR—NO OPTION

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below.

Select one course from categories C or D below.

Select one course from category E or from an unused category above.

**A. Cellular and Subcellular Biology** (p. 73)

**B. Organismal Biology** (p. 74)

**C. Ecology** (p. 75)

**D. Evolution and Systematics** (p. 75)

**E. Applied Biology, Agriculture and Natural Resources** (p. 76)

## EVOLUTIONARY BIOLOGY OPTION

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must take ANTHRO/BOTANY/ZOOLOGY 410 Evolutionary Biology. In addition, select one course from categories A or B below. Select one course from category C. Select one course from category D. Additional courses can be taken from "A-E" to satisfy the lab and/or 31 credit requirement.

**A. Cellular and Subcellular Biology** (p. 73)

**B. Organismal Biology** (p. 74)

**C. Ecology** (p. 75)

**D. Evolution and Systematics** (p. 75)

**E. Applied Biology, Agriculture and Natural Resources** (p. 76)

### SEMINAR

Code	Title	Credits
Undergraduate Evolution Seminar (1 cr minimum)		
BIOLOGY/ GENETICS 522	Evolution Seminar Series-Undergraduate	1

## NEUROBIOLOGY OPTION

**Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

Students who have declared the biology major—neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must complete 1. ZOOLOGY/PSYCH 523 Neurobiology and 2. either ZOOLOGY/NTP/PHYSIOL/PSYCH 524 Neurobiology II: An Introduction to the Brain and Behavior or PSYCH 454 Behavioral Neuroscience.

In addition, select one course from category A. Select one course from category B. Select one course from categories C or D below. Additional courses can be taken from "A-F" to satisfy the lab and/or 31 credit requirement.

#### A. Cellular and Molecular Neurobiology

Code	Title	Credits
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course <sup>1</sup>	4
NTP/PHMCO-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	4
NTP/NEURODPT/ PHYSIOL/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NTP/PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	3
NTP/ZOOLOGY 635	Neurobiology of Disease	2

NTP 655	Modeling Neurodevelopmental Disease	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
PSYCH 601	Current Topics in Psychology (Epigenetics & the Brain)	3
PSYCH 601	Current Topics in Psychology (Neuropharmacology)	3
ZOOLOGY 400	Topics in Biology <sup>2</sup>	1-3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY/NTP 635	Neurobiology of Disease	2

<sup>1</sup> Courses also approved for Lab credit

<sup>2</sup> Approved topic: General Molecular Biology, offered spring 2016 and spring 2017

## B. Systems Neurobiology

Code	Title	Credits
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
CS&D 210	Neural Basis of Communication	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
ED PSYCH 326	Mind, Brain and Education	3
KINES 531	Neural Control of Movement	3
KINES 721	Neural Basis for Movement	3
NTP/ZOOLOGY 620	Neuroethology Seminar	2
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 504	Affective Neuroscience	4
PSYCH 601	Current Topics in Psychology (Cognition & Emotion: Cognitive Affective Neuroscience)	3
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)	3
PSYCH 601	Current Topics in Psychology (Neuroeconomics)	3

<sup>1</sup> Courses also approved for lab credit

## C. Ecology (p. 75)

## D. Evolution and Systematics (p. 75)

## E. Applied Biology, Agriculture and Natural Resources (p. 76)

## F. Other Lab Courses

Code	Title	Credits
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics <sup>1</sup>	2-3
DY SCI 305	Lactation Physiology <sup>1</sup>	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
KINES 314	Physiology of Exercise <sup>1</sup>	4
KINES 338	Human Anatomy Laboratory <sup>1</sup>	2
GENETICS 545	Genetics Laboratory <sup>1</sup>	2
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2
MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory <sup>1</sup>	2
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
PHYSIOL 335	Physiology <sup>1</sup>	5
PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

<sup>1</sup> Courses also approved for lab credit

**SEMINAR**

Code	Title	Credits
	Undergraduate Neurobiology Seminar	
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

**PLANT BIOLOGY OPTION****INTERMEDIATE/ADVANCED COURSES**

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below. Select one course from categories C or D below. Select one course from category E or from an unused category above.

**A. Cellular and Subcellular Biology**

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3

<sup>1</sup> Courses also approved for lab credit

**B. Organismal Biology**

Code	Title	Credits
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

<sup>1</sup> Courses also approved for lab credit

**C. Ecology**

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

<sup>1</sup> Courses also approved for lab credit

**D. Evolution and Systematics**

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
GENETICS 468	General Genetics 2	3

<sup>1</sup> Courses also approved for lab credit

**E. Applied Biology, Agriculture and Natural Resources**

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4



BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2	BIOCHEM 507	General Biochemistry I	3
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	BIOCHEM 508	General Biochemistry II	3-4
F&W ECOL 410	Principles of Silviculture	3	BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
F&W ECOL 415	Tree Physiology	3	BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3	BIOCHEM/ M M & I 575	Biology of Viruses	2
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3	BIOCHEM 601	Protein and Enzyme Structure and Function	2
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3	BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
HORT 370	World Vegetable Crops	3	BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
HORT 372	Colloquium in Organic Agriculture	1	BIOCHEM/ BOTANY 621	Plant Biochemistry	3
HORT 376	Tropical Horticultural Systems	1	BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2
HORT 378	Tropical Horticultural Systems International Field Study	2	BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3	BMOLCHEM 314	Introduction to Human Biochemistry	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4	BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
PL PATH/ SOIL SCI 323	Soil Biology	3	BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
PL PATH 517	Plant Disease Resistance	2-3	BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1	BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

## SEMINAR

Code	Title	Credits
	Undergraduate Plant Science Seminar (1 cr minimum)	
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## INTERMEDIATE/ADVANCED COURSE LISTS

The course lists below are shared between two or more options in the major. See the option requirements (above) regarding the number of courses needed from each list or set of lists.

### A. Cellular and Subcellular Biology (Biology Major–No Option; Evolutionary Biology Option)

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course <sup>1</sup>	4
AN SCI/DY SCI 362	Veterinary Genetics	2
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2
BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3
BMOLCHEM 314	Introduction to Human Biochemistry	3
BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
DY SCI/AN SCI 362	Veterinary Genetics	2
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics 1	3
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>2</sup>	1-3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3
MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory <sup>1</sup>	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
M M & I 341	Immunology	3
NEURODPT/ NTP/PHYSIOL/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4

NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	4	BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
NTP/PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	3	BOTANY 500	Plant Physiology <sup>1</sup>	3-4
NTP/ZOOLOGY 635	Neurobiology of Disease	2	CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
NTP 655	Modeling Neurodevelopmental Disease	3	DY SCI 305	Lactation Physiology <sup>1</sup>	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3	ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3	ENTOM 321	Physiology of Insects	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3	ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2	F&W ECOL 401	Physiological Animal Ecology	3
PHYSIOL 533	Molecular Physiology	2	GENETICS 545	Genetics Laboratory <sup>1</sup>	2
PSYCH 601	Current Topics in Psychology	3	GENETICS/ MD GENET 565	Human Genetics	3
ZOOLOGY 470	Introduction to Animal Development	3	GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
ZOOLOGY/ PSYCH 523	Neurobiology	3	KINES 314	Physiology of Exercise <sup>1</sup>	4
ZOOLOGY 555	Laboratory in Developmental Biology	3	KINES 337	Human Anatomy	3
ZOOLOGY 570	Cell Biology	3	KINES 338	Human Anatomy Laboratory <sup>1</sup>	2
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab <sup>1</sup>	2	KINES 721	Neural Basis for Movement	3
ZOOLOGY 625	Development of the Nervous System	2	MICROBIO 303	Biology of Microorganisms	3
			MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
			MICROBIO 330	Host-Parasite Interactions	3
			MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2
			MICROBIO 526	Physiology of Microorganisms	3
			M M & I 301	Pathogenic Bacteriology	2
			M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
			M M & I 410	Medical Mycology	2
			NTP/PHYSIOL/ PSYCH/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3
			NTP/ZOOLOGY 620	Neuroethology Seminar	2
			NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3
			NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
			NUTR SCI 431	Nutrition in the Life Span	3
			NUTR SCI 631	Clinical Nutrition	4
			NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3
			ONCOLOGY 401	Introduction to Experimental Oncology	2
			PATH 404	Pathophysiologic Principles of Human Diseases	3
			PHYSIOL 335	Physiology <sup>1</sup>	5
			PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
			PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
			PSYCH 406	Psychology of Perception	3-4
			PSYCH 601	Current Topics in Psychology	3
			PSYCH 414	Cognitive Psychology	3

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Developmental Genetics for Conservation

## B. Organismal Biology (Biology Major—No Option; Evolutionary Biology Option)

Code	Title	Credits
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4

PSYCH 454	Behavioral Neuroscience	3
PSYCH 556	Hormones and Behavior	3
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 400	Topics in Biology (Mammalogy)	1-3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

<sup>1</sup> Courses also approved for lab credit

### C. Ecology (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2

<sup>1</sup> Courses also approved for lab credit

### D. Evolution and Systematics (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 658	Ecological Models of Behavior	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
PSYCH 449	Animal Behavior	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
ZOOLOGY 425	Behavioral Ecology	3

<sup>1</sup> Courses also approved for lab credit

**E. Applied Biology, Agriculture and Natural Resources (Biology Major—No Option; Evolutionary Biology Option; Neurobiology Option)**

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 318	Principles of Wildlife Ecology	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3

FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Colloquium in Organic Agriculture	1
HORT 376	Tropical Horticultural Systems	1
HORT 378	Tropical Horticultural Systems International Field Study	2
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
MEDICINE/ M&ENVTOX/ ONCOLOGY/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

**HONORS IN THE MAJOR**

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take BIOLOGY 681 Senior Honors Thesis and BIOLOGY 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

## LEARNING OUTCOMES

- Graduates will know and understand core concepts that unify the breadth of biological sciences:
  - Evolution - The diversity of life evolved over time by processes of mutation, selection, and genetic change.
  - Structure and Function - Basic units of structure define the function of all living things.
  - Information flow, exchange, and storage - The growth and behavior of organisms are activated through the expression of genetic information in context.
  - Pathways for transformations of energy and matter - Biological systems grow and change by processes based upon chemical transformation pathways and are governed by the laws of thermodynamics.
  - Systems - Living systems are interconnected and interacting.
- Graduates will be able to demonstrate practical skills of a professional biologist:
  - Problem#solving by engaging the process of science
    - Developing hypotheses and aligning appropriate methodologies
    - Using biological knowledge/concepts to solve problems
    - Integrating disparate information
  - Written and verbal proficiency
  - Laboratory skills
  - Quantitative analysis skills
  - Teamwork skills
- Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## FOUR-YEAR PLAN

Four-year road maps for the biology major are designed to support biological science major exploration. The road map is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and the Course Guide/Schedule of Classes. Your specific program of study could, and probably will, look different. You should customize the road map to fit your unique path at UW–Madison. Consult with your advisor about the best path for you.

## FOUR-YEAR PLAN SAMPLE BIOLOGY MAJOR—NO OPTION FOUR-YEAR PLAN

### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
Math Course <sup>1</sup>	3-5 Math Course	3-5
COMM A or Breadth Courses	6 COMM A or Breadth Courses	5-7
First Year Seminar <sup>2</sup>	1	
14-17		13-17

Total Credits 27-34

### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344	2
Math Course (if needed)	3-5 CHEM 345	3
Intro Biology Courses <sup>3</sup>	3-5 Intro Biology Courses <sup>3</sup>	3-5
Breadth Course	3 Breadth Courses	4-6
12-16		12-16

Total Credits 24-32

### Junior

Fall	Credits Spring	Credits
Physics Course	4-5 Physics Course	4-5
Foundational or Biocore	3 Biocore or Intermediate/Advanced Biology Courses <sup>4</sup>	3-5
Elective Courses	5-8 Elective Courses	5-8
12-16		12-18

Total Credits 24-34

### Senior

Fall	Credits Spring	Credits
Intermediate/Advanced Biology Course <sup>4</sup>	3-5 Intermediate/Advanced Biology Course <sup>4</sup>	3-5
Capstone or Research Course	2-3 Capstone or Research Course	2-3
Elective Courses	7-10 Elective Courses	7-10
12-18		12-18

Total Credits 24-36

<sup>1</sup> Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

<sup>2</sup> Suggested that CALS freshmen investigate INTER-AG 155: Issues in Agriculture, Environment and Life Sciences; BIOLOGY 375 Special Topics: Exploring Biology; or a FIG.

<sup>3</sup> Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

<sup>4</sup> See Requirements tab for intermediate/advanced biology course lists.

## SAMPLE BIOLOGY FOUR-YEAR PLAN—EVOLUTIONARY BIOLOGY OPTION

### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
Math Courses <sup>1</sup>	3-5 Math Courses	3-5
COMM A or Breadth Courses	6 COMM A or Breadth Courses	5-7
First Year Seminar <sup>2</sup>	1	
	14-17	13-17

Total Credits 27-34

### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 345	3
Math Course (if needed)	3-5 CHEM 344	2
Intro Biology Course <sup>3</sup>	3-5 Intro Biology Course <sup>3</sup>	3-5
Breadth Course	3 Breadth Courses	4-6
	12-16	12-16

Total Credits 24-32

### Junior

Fall	Credits Spring	Credits
Physics Course	4-5 Physics Course	4-5
Foundational or Biocore	3-5 Biocore or Intermediate/Advanced Biology <sup>4</sup>	3-5
Electives	5 ANTHRO/BOTANY/ZOOLOGY 410	3
	Evolution Seminar	1
	Electives	4
	12-15	15-18

Total Credits 27-33

### Senior

Fall	Credits Spring	Credits
Intermediate/Advanced Biology Course <sup>4</sup>	5 Intermediate/Advanced Biology Course <sup>4</sup>	5
Capstone or Research Course	2-3 Capstone or Research	2-3
Elective Courses	5-8 Elective Courses	5-8
	12-16	12-16

Total Credits 24-32

<sup>1</sup> Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

<sup>2</sup> Suggested that CALS freshmen investigate INTER-AG 155: Issues in Agriculture, Environment and Life Sciences; BIOLOGY 375 Special Topics: Exploring Biology; or a FIG.

<sup>3</sup> Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130

& a foundational course or BIOCORE (three lectures and two labs required).

<sup>4</sup> See Requirements tab for intermediate/advanced biology course lists.

## SAMPLE BIOLOGY FOUR-YEAR PLAN—PLANT BIOLOGY OPTION

### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
Math <sup>1</sup>	3-5 Stats/ Math	3-5
COMM A or Breadth	6 COMM A or Breadth	5-7
First Year Seminar <sup>2</sup>	1	
	14-17	13-17

Total Credits 27-34

### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 345	3
Stats / Math (if needed)	3-5 CHEM 344	2
Intro Biology Course <sup>3</sup>	3-5 Intro Biology Course <sup>3</sup>	3-5
Breadth Course	3 Breadth Course	4-6
	12-16	12-16

Total Credits 24-32

### Junior

Fall	Credits Spring	Credits
Physics	4-5 Physics	4-5
Foundational or Biocore	3-5 Biocore or Intermediate/Advanced Plant Biology <sup>4</sup>	3-5
Electives	5-8 Plant Science Seminar	1
	Electives	5-7
	12-18	13-18

Total Credits 25-36

### Senior

Fall	Credits Spring	Credits
Intermediate/Advanced Plant Biology <sup>4</sup>	5 Intermediate/Advanced Plant Biology <sup>4</sup>	5
Capstone or Research	2-3 Capstone or Research	2-3
Plant Science Seminar (if needed)	1 Plant Science Seminar (if needed)	1
Electives	5-8 Electives	5-8
	13-17	13-17

Total Credits 26-34

<sup>1</sup> Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course. **Stats recommended.**

<sup>2</sup> Suggested that CALS freshmen investigate INTER-AG 155: Issues in Agriculture, Environment and Life Sciences; BIOLOGY 375 Special Topics: Exploring Biology; or a FIG.

<sup>3</sup> Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or (**recommended**) BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/

BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

- <sup>4</sup> See Requirements tab for intermediate/advanced biology course lists.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<http://advising.wisc.edu/content/expectations-about-advising>).

In the biology major, students are assigned to an adviser according to last name. Please schedule an advising appointment here (<http://biologymajor.wisc.edu/advising>).

### CAREERS

The biology major encourages students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the CALS Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

College of Agricultural and Life Sciences graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Schedule a Career Advising appointment (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-advising>)
- Connect with CALS Career Services (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/cals-career-development-on-facebook>)
- Explore CALS Career Services for Students (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-development>)

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Harris-Johnson, Kelley, Program Manager  
Asen, Brian  
Courtenay, Todd  
Haas-Gallo, Erica  
Smith, Mary

### BIOLOGY MAJOR ADMINISTRATION

Fernandez, Donna, L&S Co-Chair

Wassarman, Karen, CALS Co-Chair

Perna, Nicole, Evolutionary Biology Option Representative

Johnson, Steven M., Neurobiology Option Representative

Goldman, Irwin, Plant Biology Option Representative

Blair, Seth

Gilroy, Simon

Boekhoff-Falk, Grace

Harris, Michelle

Rouse, Doug

Kurtz, Robin, ex-officio

Thoma, Sharon, ex-officio

Harris-Johnson, Kelley, ex-officio

## MICROBIOLOGY, B.S. (CAL S)

Microbiology, the study of microorganisms, helps us understand our world and solve major problems. Microorganisms, or microbes, were the first life forms on earth and influence our lives and our planet in innumerable ways. The field of microbiology is constantly expanding as we learn more about the role of microbes in infectious disease, environmental remediation, bioenergy, food safety, antibiotic resistance, biotechnology and much more. Communities of microbes (or "microbiomes") are critically important in human health, global warming, agricultural yield, criminal justice, economic development and other issues of national concern.

The **microbiology major**, offered by the Department of Bacteriology, is a rigorous path of study, providing a curriculum packed with deep knowledge on broad aspects of microbiology and emphasizing modern laboratory skills. The core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective courses provide the opportunity to study environmental microbiology, food microbiology, microbial pathogenesis, immunology, virology, microbiomes and microbial biotechnology, as well as advanced topics in microbial genetics and physiology. In the instructional laboratory courses, students learn beginning through advanced laboratory techniques—gaining the type of hands-on experiences with modern equipment that employers and graduate schools seek. Additionally, students can conduct mentored and independent research projects in faculty laboratories.

The bachelor's degree provides a strong background in the biological sciences for students planning to enter medical, dental, veterinary or other professional schools, as well as those planning graduate studies in any branch of microbiology or other biological sciences such as biochemistry, pathology, and molecular or cell biology.

Students who end their training with a bachelor's degree are well-prepared for a variety of career opportunities, including laboratory positions in pharmaceutical and biotechnology firms and in university and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process as well as training in microbiology allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

## HOW TO GET IN

Incoming or current students in good academic standing may declare the microbiology major at any time.

Schedule an appointment (<https://calendar.wisc.edu/scheduling-assistant/schedule/RAUHTzYt/view.html?jsessionid=89D5FEA38114F159C48E4959F05B91E1.primary>) with Katy France to discuss the microbiology major, appropriate coursework, how to declare, and so on.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CAL S Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics</b>		
Select one of the following:		5-10
	MATH 171 Calculus with Algebra and & MATH 217 Trigonometry I and Calculus with Algebra and Trigonometry II	
	MATH 211 Calculus	
	MATH 221 Calculus and Analytic Geometry I	
<b>Statistics</b>		
Select one of the following:		3-4
	STAT 301 Introduction to Statistical Methods	
	STAT 371 Introductory Applied Statistics for the Life Sciences	
	STAT/B M I 541 Introduction to Biostatistics	
<b>General Chemistry</b>		
Select one of the following:		5-9
	CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	
<b>Organic Chemistry</b>		
Select ALL of the following:		
	CHEM 343 Introductory Organic Chemistry	3
	CHEM 344 Introductory Organic Chemistry Laboratory	2
	CHEM 345 Intermediate Organic Chemistry	3
<b>Biology Foundation</b>		
Select one of the following:		10-13



BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Organismal Biology <sup>1</sup>
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany

**Physics**

Select one of the following: 8-10

PHYSICS 103 & PHYSICS 104	General Physics and General Physics
PHYSICS 207 & PHYSICS 208	General Physics and General Physics
PHYSICS 201 & PHYSICS 202	General Physics and General Physics

**Biochemistry**

Select one of the following: 3-6

BIOCHEM 501	Introduction to Biochemistry
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II

**Microbiology Courses***Microbiology Core (all required):*

Except where noted, all Microbiology Core courses are offered every fall and spring semester.		
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2

*Microbiology Capstone (required):*

MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory	2
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*Microbiology Electives*

Select at least 6 credits; at least 3 credits must come from Set A. Note that not all elective courses are offered every semester.

Set A:

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory
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MICROBIO/ FOOD SCI 325	Food Microbiology
MICROBIO 330	Host-Parasite Interactions
MICROBIO 375	Special Topics
MICROBIO/SOIL SCI 425	Environmental Microbiology
MICROBIO/SOIL SCI 523	Soil Microbiology and Biochemistry
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)
MICROBIO/ GENETICS 607	Advanced Microbial Genetics
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology
MICROBIO/ PL PATH 622	Plant-Bacterial Interactions
MICROBIO 632	Industrial Microbiology/ Biotechnology
MICROBIO/ ONCOLOGY/PL PATH 640	General Virology-Multiplication of Viruses
MICROBIO/ BOTANY/ GENETICS/M M & I/PL PATH 655	Biology and Genetics of Filamentous Fungi
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution

Set B:

BIOCHEM/M M & I 575	Biology of Viruses
BIOCHEM 601	Protein and Enzyme Structure and Function
BOTANY 330	Algae
BOTANY/PL PATH 332	Fungi
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
CHEM 565	Biophysical Chemistry
COMP SCI/ B M I 576	Introduction to Bioinformatics
F&W ECOL/SURG SCI 548	Diseases of Wildlife
MICROBIO/ M M & I/PATH- BIO 528	Immunology
M M & I 301	Pathogenic Bacteriology
M M & I 341	Immunology
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I 410	Medical Mycology
M M & I 554	Emerging Infectious Diseases and Bioterrorism

M M & I/POP HLTH 603	Clinical and Public Health Microbiology
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Total Credits 60-78

<sup>1</sup> BIOLOGY/BOTANY/ZOOLOGY 151/BIOLOGY/BOTANY/ZOOLOGY 152 or BIOCORE 381/BIOCORE 382/BIOCORE 383 Cellular Biology/BIOCORE 384/BIOCORE 485 are recommended.

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take MICROBIO 681 Senior Honors Thesis and MICROBIO 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- Students will develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology
- Students will apply the scientific method to questions. They will formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
- Students will demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving
- Students will be able to access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
- Students will learn about and demonstrate personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE MICROBIOLOGY FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
General Chemistry <sup>1</sup>	4-5 Gen Chem or Electives <sup>1</sup>	5
Math <sup>2</sup>	3 Math <sup>2</sup>	3-5
COMM-A	3 Electives <sup>3</sup>	6
First-Year Seminar	1	
Elective <sup>3</sup>	3	
14-15		14-16

##### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344	2
Math <sup>2</sup>	3-5 CHEM 345	3
Intro Biology, Semester 1 <sup>4</sup>	5 Intro Biology, Semester 2 <sup>4</sup>	5
Elective <sup>3</sup>	3 Electives <sup>3</sup>	6
14-16		16

##### Junior

Fall	Credits Spring	Credits
General Physics, Semester 1 <sup>5</sup>	4-5 General Physics, Semester 2 <sup>5</sup>	4-5
MICROBIO 303	3 MICROBIO 470	3
MICROBIO 304	2 BIOCHEM 501 or BMOLCHEM 503 <sup>7</sup>	3
MICROBIO 305	1 Research <sup>6</sup>	1-4
Research <sup>6</sup>	1-4 Electives (for major or other) <sup>3</sup>	0-4
Electives (to reach 15 crs) <sup>3</sup>	0-4	
11-19		11-19

##### Senior

Fall	Credits Spring	Credits
MICROBIO 526	3 MICROBIO 450	2
MICROBIO 527	2 MICROBIO 551	2
Research <sup>6</sup>	1-4 Research <sup>6</sup>	1-4
Electives (for major or other) <sup>3</sup>	6-9 Electives (for major or other) <sup>3</sup>	7-10
12-18		12-18

Total Credits 104-137

\* Students planning to pursue graduate studies in a biological science are encouraged to take MATH 221 Calculus and Analytic Geometry 1, MATH 222 Calculus and Analytic Geometry 2, PHYSICS 201 General Physics and PHYSICS 202 General Physics or PHYSICS 207 General Physics and PHYSICS 208 General Physics, and BIOCHEM 507 General Biochemistry I and BIOCHEM 508 General Biochemistry II (see Note 7). Also recommended: CHEM 565 Biophysical Chemistry and MICROBIO/BIOCHEM/GENETICS 612 Prokaryotic Molecular Biology.

- <sup>1</sup> Choose 1 of 2 sequences: CHEM 103 General Chemistry I and CHEM 104 General Chemistry II or CHEM 109 Advanced General Chemistry. Students who take 109 and plan to attend medical or other professional schools are advised to take one additional inorganic course (CHEM 311 Chemistry Across the Periodic Table or CHEM 327 Fundamentals of Analytical Science).
- <sup>2</sup> Math course determined by placement scores. Microbio majors must complete math through calculus (choose from MATH 171 Calculus with Algebra and Trigonometry I & MATH 217 Calculus with Algebra and Trigonometry II or MATH 211 Calculus or MATH 221 Calculus and Analytic Geometry 1), and statistics (choose from STAT 301 Introduction to Statistical Methods, STAT 371 Introductory Applied Statistics for the Life Sciences, or STAT/B M I 541 Introduction to Biostatistics).
- <sup>3</sup> Electives can be scheduled according to the student's preference. Consult your advisor and the Requirements tab.
- <sup>4</sup> The three choices are 1) ZOOLOGY/BIOLOGY/BOTANY 151 Introductory Biology and ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology; 2) ZOOLOGY/BIOLOGY 101 Animal Biology, ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory and BOTANY/BIOLOGY 130 General Botany; or 3) Biocore. Biocore is a 3 to 4 semester sequence. Students must complete the first three lectures and the first two labs. The Biocore courses are BIOCORE 381 Evolution, Ecology, and Genetics, BIOCORE 382 Evolution, Ecology, and Genetics Laboratory, BIOCORE 383 Cellular Biology, BIOCORE 384 Cellular Biology Laboratory, BIOCORE 485 Organismal Biology, BIOCORE 587 Biological Interactions.
- <sup>5</sup> Physics may be taken in year 1, 2, 3, or 4 depending on the student's schedule.
- <sup>6</sup> Undergraduate research courses include 299, 699, 681#682 (Honors Thesis), 691#692 (Thesis). Both semesters are required for thesis credit. Students are encouraged to take several semesters of research (internship opportunities, 399, are also encouraged).
- <sup>7</sup> If BIOCHEM 507 General Biochemistry I and BIOCHEM 508 General Biochemistry II are taken, both semesters must be completed (take 507 in fall semester of year 3 and 508 in spring semester of year 3).

Johnson, John Mansfield, Katherine "Trina" McMahon, Michael Thomas, Karen Wassarman, and Jae-Hyuk Yu

Associate Professor Jue "Jade" Wang

Assistant Professors Daniel Amador-Noguez, Briana Burton, Federico Rey, Garret Suen, and Kalin Vetsigian

## BIOCHEMISTRY

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## DEGREES/MAJORS/CERTIFICATES

- Biochemistry, B.S. (CALs) (p. 84)

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Ansari, Aseem  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Claggett-Dame, Margaret  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Hayes, Colleen  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Markley, John  
 Martin, Tom  
 Mitchell, Julie  
 Ntambi, James  
 Palmenberg, Ann

## ADVISING AND CAREERS

Current UW–Madison students can schedule initial advising (<https://calendar.wisc.edu/scheduling-assistant/schedule/RAUHTzYt/view.html>) in the microbiology major with Katy France.

Prospective/future UW–Madison students should email ([katy.france@wisc.edu](mailto:katy.france@wisc.edu)) Katy France to set up an appointment, which can be conducted in person or via phone call.

Read about and explore possible microbiology careers at the American Society for Microbiology (<https://www.asm.org/index.php/learn-about-careers>) website.

Learn more about health-related careers through the ExploreHealthCareers.org (<https://explorehealthcareers.org>) website.

## PEOPLE

Professors Charles Kaspar (chair), Jean-Michel Ané, Cameron Currie, Timothy Donohue, Marcin Filutowicz, Katrina Forest, Richard Gourse, Eric

Pike, Wes  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Sussman, Mike  
 Weibel, Doug  
 Wickens, Marv

## ASSOCIATE PROFESSORS

Henzler-Wildman, Katie  
 Pagliarini, Dave  
 Senes, Alessandro

## ASSISTANT PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan  
 Romero, Phil  
 Venturelli, Ophelia  
 Wildonger, Jill

## ASSOCIATE FACULTY ASSOCIATE

Prost, Lynne

## UNDERGRADUATE ADVISOR

Gurnee, Kendra

## BIOCHEMISTRY, B.S. (CALs)

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## HOW TO GET IN

Students who have completed a semester or more on campus must have a 2.5 previous semester GPA in order to declare or transfer into the major. Students may declare the major via an appointment with the undergraduate advisor.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CALs) have the option to declare Biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies. The biochemistry major is offered through either CALs or the College of Letters & Science (L&S). Students interested in the differences or transferring between CALs and L&S should meet with the advisor to discuss this in more detail. Students in other schools/colleges (Business, Education, Engineering, etc.) may add biochemistry as an additional major with permission of their home school/college.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I	
	or CHEM 108 Chemistry in Our World	
	or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

### MATHEMATICS

Code	Title	Credits
Select one of the following options:		
	MATH 221 Calculus and Analytic Geometry 1	9
	& MATH 222 and Calculus and Analytic Geometry 2	
	MATH 171 Calculus with Algebra and	14
	& MATH 217 Trigonometry I	
	& MATH 222 and Calculus with Algebra and	
	Trigonometry II	
	and Calculus and Analytic Geometry 2	
	MATH 275 Topics in Calculus I	10
	& MATH 276 and Topics in Calculus II	

### CHEMISTRY

#### General Chemistry

Code	Title	Credits
Select one of the following options:		
	CHEM 103 General Chemistry I	9
	& CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	5
	CHEM 115 Chemical Principles I	10
	& CHEM 116 and Chemical Principles II (satisfies both general and analytical chemistry requirements)	

#### Organic Chemistry

Code	Title	Credits
Select ALL of the following courses:		
	CHEM 343 Introductory Organic Chemistry	3

CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

#### Analytical Chemistry

Code	Title	Credits
Select one of the following options:		
	CHEM 327 Fundamentals of Analytical Science	4
	CHEM 329 Fundamentals of Analytical Science	4
	CHEM 115 Chemical Principles I	10
	& CHEM 116 and Chemical Principles II (satisfies both general and analytical chemistry requirements)	

#### Physical Chemistry

Code	Title	Credits
Must complete 4 credits of physical chemistry. Select one of the following options:		
	CHEM 565 Biophysical Chemistry (recommended)	4
	CHEM 561 Physical Chemistry	4-5
	& CHEM 563 and Physical Chemistry Laboratory	

### BIOLOGY

Students must complete either Option A (introductory + upper level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

#### Option A (Introductory + Upper Level Biology) Option A Introductory Biology

Code	Title	Credits
Select one of the following introductory biology options:		
	BIOLOGY/BOTANY/ ZOOLOGY 151 Introductory Biology	10
	& BIOLOGY/BOTANY/ ZOOLOGY 152 and Introductory Biology (recommended)	
	BIOLOGY/ ZOOLOGY 101 Animal Biology	10
	& BIOLOGY/ ZOOLOGY 102 and Animal Biology Laboratory	
	& BOTANY/ BIOLOGY 130 and General Botany	

#### AND Option A Upper-Level Biology

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits; more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the courses in the course list below. To see courses sorted by subject, as well as a list of courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program)).

**Important:** Biochemistry courses on this list can only count for "upper-level biology" if they are above and beyond what is needed to fulfill the "biochemistry" portion of the major. For example, if students have taken Biochemistry 501, they

will need one upper-level biochemistry elective to fulfill the biochemistry requirement, and then any additional biochemistry courses taken can count for upper-level biology. A course may not double count in both the "upper-level biology" and the "biochemistry" requirements for the major.

Code	Title	Credits
ANATOMY/ KINES 328	Human Anatomy	3
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/B M E/ CHEM/MED PHYS/ PHMCOL-M/ PHYSICS/ RADIOL 619	Microscopy of Life	3
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
ANATOMY 637	Functional Neuroanatomy	3
ANATOMY/ AN SCI 660	Electron Microscopy: Theory & Practice	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
AGRONOMY/ HORT 328	Integrated Weed Management	4
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	4
AGRONOMY/ A A E/INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI 314	Poultry Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
AN SCI/DY SCI 414	Ruminant Nutrition	2
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 430	Sheep Production	3
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI/DY SCI/ ENVR ST/ SOIL SCI 468	Managing the Environmental Impacts of Livestock Operations	2
AN SCI 503	Avian Physiology	3
AN SCI 508	Poultry Products Technology	3
AN SCI 511	Breeder Flock and Hatchery Management	3
AN SCI 512	Management for Avian Health	3
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
AN SCI/ NUTR SCI 626	Experimental Diet Design	1
AN SCI/ ANATOMY 660	Electron Microscopy: Theory & Practice	3
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
BIOCHEM 550	Topics in Medical Biochemistry	2
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology	3
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2

BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3	BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3	BOTANY/GENETICS/ ZOOLOGY 645	Modeling in Population Genetics and Evolution	3
BSE 349	Quantitative Techniques for Biological Systems	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BSE 364	Engineering Properties of Food and Biological Materials	3	BOTANY/GENETICS/ M M & I/MICROBIO/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3-4
BSE 365	Measurements and Instrumentation for Biological Systems	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE/ENVIR ST 367	Renewable Energy Systems	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	DY SCI 305	Lactation Physiology	3
BSE 461	Food and Bioprocessing Operations	3	DY SCI 535	Dairy Farm Management Practicum	3
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
BSE/FOOD SCI 542	Food Engineering Operations	4	ENTOM 321	Physiology of Insects	3
BSE/FOOD SCI 642	Food and Pharmaceutical Separations	2-3	ENTOM 331	Taxonomy of Mature Insects	4
BMOLCHEM 504	Human Biochemistry Laboratory	2	ENTOM 342	Insect Ecology	3
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM 351	Principles of Economic Entomology	3
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM/ ZOOLOGY 371	Medical Entomology	3
B M I/COMP SCI 576	Introduction to Bioinformatics	3	ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
BOTANY 300	Plant Anatomy	4	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY 305	Plant Morphology and Evolution	4	ENTOM/ ZOOLOGY 530	Insect Behavior	3
BOTANY 330	Algae	3	ENTOM/ ZOOLOGY 540	Theoretical Ecology	3
BOTANY/ PL PATH 332	Fungi	4	ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BOTANY 400	Plant Systematics	4	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
BOTANY 401	Vascular Flora of Wisconsin	4	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
BOTANY/ F&W ECOL 402	Dendrology	2	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ENVIR ST/ ATM OCN 520	Bioclimatology	3
BOTANY 422	Plant Geography	3	ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4	FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4	FOOD SCI/ MICROBIO 325	Food Microbiology	3
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3	FOOD SCI 410	Food Chemistry	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4	FOOD SCI 440	Principles of Food Engineering	3
BOTANY 500	Plant Physiology	3-4	FOOD SCI 511	Chemistry and Technology of Dairy Products	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3	FOOD SCI 512	Principles of Food Chemistry-Lab	2
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3	FOOD SCI 514	Integrated Food Functionality	4
BOTANY 563	Phylogenetic Analysis of Molecular Data	3			
BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3			

FOOD SCI 550	Fermented Foods and Beverages	2	MD GENET/ PEDIAT 646	Cancer Genetics Risk Assessment and Counseling	2
FOOD SCI 610	Food Proteins	2	M M & I 301	Pathogenic Bacteriology	2
FOOD SCI 611	Chemistry and Technology of Dairy Products	3	M M & I 302	Medical Microbiology Laboratory	3
FOOD SCI/ MICROBIO 650	Advanced Microbiology of Foodborne Pathogens	3	M M & I 341	Immunology	3
F&W ECOL 300	Forest Biometry	4	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I/PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory	2
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	M M & I 410	Medical Mycology	2
F&W ECOL 318	Principles of Wildlife Ecology	3	M M & I 412	Medical Mycology Laboratory	1
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	M M & I 460	Techniques in DNA Science for Microbiologists	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
F&W ECOL 379	Principles of Wildlife Management	3	M M & I/PATH- BIO 529	Immunology Laboratory	2
F&W ECOL 401	Physiological Animal Ecology	3	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL 404	Wildlife Damage Management	3	M M & I 555	Vaccines: Practical Issues for a Global Society	3
F&W ECOL 410	Principles of Silviculture	3	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL 415	Tree Physiology	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 550	Forest Ecology	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL 561	Wildlife Management Techniques	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
F&W ECOL 590	Integrated Resource Management	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL 635	Forest Stand Dynamics	1-2	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
F&W ECOL 655	Animal Population Dynamics	3	MICROBIO 526	Physiology of Microorganisms	3
GENETICS 466	Principles of Genetics	3	MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
GENETICS 467	General Genetics 1	3	MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory	2
GENETICS 468	General Genetics 2	3	MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3
GENETICS 545	Genetics Laboratory	2	MICROBIO 625	Advanced Microbial Physiology	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3	MICROBIO 632	Industrial Microbiology/ Biotechnology	2
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2	MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
GENETICS/ MD GENET 565	Human Genetics	3	NUTR SCI 332	Human Nutritional Needs	3
GENETICS 566	Advanced Genetics	3	NUTR SCI 431	Nutrition in the Life Span	3
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3	NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3
GENETICS/ AN SCI 610	Quantitative Genetics	3	ONCOLOGY 401	Introduction to Experimental Oncology	2
H ONCOL/ MED PHYS 410	Radiobiology	2-3			
H ONCOL/B M E/ MED PHYS/ PHYSICS 501	Radiological Physics and Dosimetry	3			
HORT 320	Environment of Horticultural Plants	3			



ONCOLOGY/ M&ENVTOX/ MEDICINE/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
PHM SCI 310	Drugs and Their Actions	2
PHM SCI 401	Survey of Pharmacology	3
PHM SCI/B M E 430	Biological Interactions with Materials	3
PHYSIOL 335	Physiology	5
PHYSIOL 435	Fundamentals of Human Physiology	5
PHYSIOL 533	Molecular Physiology	2
PHYSIOL/NTP/ PHMCOL-M 610	Cellular and Molecular Neuroscience	4
PHYSIOL/NTP 629	Molecular and Cellular Mechanisms of Memory	3
PL PATH 300	Introduction to Plant Pathology	4
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
PL PATH 558	Biology of Plant Pathogens	3
PL PATH 559	Diseases of Economic Plants	3
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3
PSYCH 454	Behavioral Neuroscience	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
SOIL SCI/CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
ZOOLOGY 535	Ecosystem Analysis	3
ZOOLOGY/ GEOSCI 541	Paleobiology	3

ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3
ZOOLOGY/ PSYCH 550	Animal Communication and the Origins of Language	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2
ZOOLOGY/ANTHRO/ NTP/PSYCH 619	Biology of Mind	3
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY/NTP 635	Neurobiology of Disease	2

### Option B (Biocore)

Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply to and be accepted to the program to take Biocore classes. For more information, see their website (<https://biocore.wisc.edu>).

Code	Title	Credits
Select ALL of the following lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Organismal Biology	3
BIOCORE 587	Biological Interactions	3
AND, select two of the following lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
BIOCORE 384	Cellular Biology Laboratory	2
BIOCORE 486	Organismal Biology Laboratory	2

### PHYSICS (CALCULUS-BASED)

Code	Title	Credits
Select one of the following options (students should consult with advisor if they have credit for PHYSICS 103 and/or 104 to discuss options):		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

### BIOCHEMISTRY

One set of introductory coursework *and* the capstone course are required, for a total of *three* biochemistry courses.

#### Introductory Courses

Code	Title	Credits
Select one of the following options:		

BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6
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**OR**

BIOCHEM 501	Introduction to Biochemistry	3
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AND one of the following upper-level biochemistry electives:

BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	
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BIOCHEM 550	Topics in Medical Biochemistry	
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BIOCHEM/ M M & I 575	Biology of Viruses	
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BIOCHEM 601	Protein and Enzyme Structure and Function	
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BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology	
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BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	
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BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
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BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
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BIOCHEM/ BOTANY 621	Plant Biochemistry	
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BIOCHEM 625	Coenzymes and Cofactors in Enzymology	
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BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	
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BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	
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**Capstone Course (required)**

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4

**RECOMMENDED COURSES**

First year students interested in exploring the major can enroll in Biochemistry Freshman Seminar (BIOCHEM 100). Additional courses in math, biology, chemistry, biochemistry, statistics, and computer science are common elective courses, depending on student's areas of interest and future career goals.

**HONORS IN THE MAJOR**

Students may declare Honors in the Biochemistry Major in consultation with the Biochemistry Undergraduate Advisor. To be admitted to the Honors Program in Biochemistry, students must have declared a major in Biochemistry and achieved a 3.300 overall University GPA.

**HONORS IN THE BIOCHEMISTRY MAJOR REQUIREMENTS**

To earn Honors in the Major in Biochemistry students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 overall University GPA
- 3.300 GPA in courses designated as Biological, Physical or Natural science Breadth
- Complete two biological science courses for Honors chosen from the list of courses (below) that can fulfill the biological science requirements for the major (introductory biology, upper-level biology, or Biocore)
- Complete **BIOCHEM 507 General Biochemistry I** and **BIOCHEM 508 General Biochemistry II** for Honors. This is in addition to the biological and physical science Honors requirements above.
- Complete a two-semester Senior Honors Thesis in BIOCHEM 681 Senior Honors Thesis and BIOCHEM 682 Senior Honors Thesis, for a total of 6 credits. Students seeking to complete this requirement in a related department, such as Chemistry, must seek approval from the Undergraduate Biochemistry Advisor.
- Complete at least 20 credits, taken for Honors, from the following list:

**Math**

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

**Chemistry**

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory	1

**Physics**

Code	Title	Credits
PHYSICS 201	General Physics	5

PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5
PHYSICS 249	A Modern Introduction to Physics	4

### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3

### How to Apply

Apply to the Honors Program by filling out the application (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/getting-admitted>). Be sure to check the "Honors in the Major" box on your application. The undergraduate advisor must sign your application.

CALS students must deposit their thesis with the Honors Dean and submit an Honors checklist at the time of graduation in order to graduate with Honors in the Major. See the website (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Identify the fundamental biochemical principles that underlie all biological processes.
2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.
3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.

5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE BIOCHEMISTRY FOUR YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104 (if needed)	5
MATH 221	5 MATH 222	4
COMM A or Elective	3 Humanities Course	3
INTER-AG 155 or BIOCHEM 100	1 Elective	3
		13-14
Total Credits 28-29		15

##### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344	2
BIOCORE 381 & BIOCORE 382 (or ZOOLOGY 151)	5 CHEM 345	3
Humanities Course	3 BIOCORE 383 & BIOCORE 384 (or ZOOLOGY 152)	5
Social Science Course	3 Ethnic Studies Course	3
		14
Total Credits 27		13

##### Junior

Fall	Credits Spring	Credits
PHYSICS 207 or 201	5 PHYSICS 208 or 202	5
BIOCORE 485 (or Upper-level Biology)	3 BIOCORE 587 (or Upper-level Biology)	3
BIOCHEM 507 <sup>2</sup>	3 BIOCHEM 508	3
International Studies Course	3 CHEM 327	4
Electives	2-3	
		16-17
Total Credits 31-32		15

##### Senior

Fall	Credits Spring	Credits
CHEM 565 or BIOCHEM 551 <sup>4</sup>	4 BIOCHEM 551 or CHEM 565 <sup>4</sup>	4
BIOCHEM 691 or 681 <sup>3</sup>	2-3 BIOCHEM 692 or 682	2-3
Electives or Remaining Requirements	6-10 Electives or Remaining Requirements	6-10
		12-17
Total Credits 24-34		12-17

<sup>1</sup> BIOCORE sequence requires four lecture courses plus two lab courses. Student may also take ZOOLOGY/BIOLOGY/BOTANY 151

and ZOOLOGY/BIOLOGY/BOTANY 152 plus six credits of Upper-level Biology instead of BIOCORE.

<sup>2</sup> Students must either take: (1) both 507 and 508 or (2) 501 and two additional credits of Biochemistry from the 500/600 level electives.

<sup>3</sup> Senior Thesis, independent study or work experience in laboratory are strongly recommended, but are not required. However, certain groups of honors students ARE required to do a senior honors thesis.

<sup>4</sup> CHEM 565 Biophysical Chemistry is offered every fall and odd spring semesters.

Martin, Tom  
Mitchell, Julie  
Ntambi, James  
Palmenberg, Ann  
Pike, Wes  
Ralph, John  
Rayment, Ivan  
Record, Tom  
Sussman, Mike  
Weibel, Doug  
Wickens, Marv

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, Kendra Gurnee, use the Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/XkmJSxnp.html>).
- Email ([kgurnee@wisc.edu](mailto:kgurnee@wisc.edu)) Kendra Gurnee with brief questions.
- Drop-in advising hours for quick (10-15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advising-information-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advising-information-undergraduate-program)) each semester.

### CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.
- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

## PEOPLE

### PROFESSORS

Amasino, Rick  
Ansari, Aseem  
Attie, Alan  
Bednarek, Sebastian  
Butcher, Sam  
Clagett-Dame, Margaret  
Cox, Mike  
Craig, Elizabeth  
Fox, Brian (Chair)  
Friesen, Paul  
Hayes, Colleen  
Holden, Hazel  
Kimble, Judith  
Landick, Bob  
Markley, John

### ASSOCIATE PROFESSORS

Henzler-Wildman, Katie  
Pagliarini, Dave  
Senes, Alessandro

### ASSISTANT PROFESSORS

Hoskins, Aaron  
Raman, Vatsan  
Romero, Phil  
Venturelli, Ophelia  
Wildonger, Jill

### ASSOCIATE FACULTY ASSOCIATE

Prost, Lynne

### UNDERGRADUATE ADVISOR

Gurnee, Kendra

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW-Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page ([https://www.studyabroad.wisc.edu/map\\_biochem.asp](https://www.studyabroad.wisc.edu/map_biochem.asp)) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program)) and the advisor can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## BIOLOGICAL SYSTEMS ENGINEERING

The biological systems engineering program is a professional program leading to the degree of Bachelor of Science–Biological Systems Engineering jointly granted by the College of Engineering and the College of Agricultural and Life Sciences. A student may study in the General program, or specialize in food and bioprocess engineering, natural resources and environmental engineering, or machinery systems engineering. It is intended for students interested in engineering as applied to all aspects of food and fiber production and biologically related engineering applications. All engineering curricula are designed to meet all criteria for accreditation by the Engineering Accreditation Commission of ABET (<http://www.abet.org>) (Accreditation Board for Engineering and Technology).

### DEGREES/MAJORS/CERTIFICATES

- Biological Systems Engineering, B.S. (p. 93)

### PEOPLE

#### PROFESSORS

Robert Anex, Dave Bohnhoff, Christopher Choi, Sundaram Gunasekaran, Awad Hanna, David Kammel, Krishnapuram Karthikeyan, John Ralph, Douglas Reinemann (chair), John Shutske, Kevin Shinnars, Richard Straub, Anita Thompson

#### ASSOCIATE PROFESSORS

Xuejun Pan, Troy Runge

#### ASSISTANT PROFESSORS

Rebecca Larson, Brian Luck

#### STAFF

Department Administrator: Susan Reinen

Student Services: Betsy Wood

Payroll: Pam Spahn

Financial: Terry Meyer

## BIOLOGICAL SYSTEMS ENGINEERING, B.S.

Biological systems engineering (BSE) is the application of engineering principles to biological and agricultural systems which greatly impact our food, fiber and renewable energy resources. Since biological systems engineering programs focus heavily on the protection and conservation of natural resources, it is not uncommon for them to be described as sustainable engineering programs.

Within the BSE program a student must enroll in either the *General Program* area or in one of the following three specialization areas: *Machinery Systems Engineering*, *Natural Resources and Environmental Engineering*, or *Food and Bioprocess Engineering*. The specialization in

Food and Bioprocess Engineering is split into a Food Engineering track and a Bioprocess Engineering track.

Students who complete all degree requirements are awarded a *Bachelor of Science–Biological Systems Engineering* degree. A student who completes one of the three program specializations will have the area of specialization identified on the official transcript. The BSE program, like all undergraduate engineering programs on the UW–Madison campus, is accredited by ABET (<http://www.abet.org>) (Accreditation Board for Engineering and Technology). Accreditation by ABET is an indication of program quality and has major benefits for individuals seeking registration as a licensed professional engineer. A UW–Madison BSE graduate may apply for licensure as a registered professional engineer once they have passed the Fundamentals of Engineering (FE) exam, obtained four years of qualifying engineering work experience, and have passed the Professional Engineering (PE) exam. To obtain a BSE degree from UW–Madison, a student must have taken (but is not required to have passed) the FE exam as part of their Senior Design sequence. Information about the FE exam can be found at Fundamentals of Engineering Exam (<http://ncees.org/exams/fe-exam>).

Graduates work in career fields associated with the growth, harvest, transportation, processing and storage of food, feedstuffs, biomass for energy production and forestry products. This includes, but is not limited to, jobs involving the design, construction and management of: bio-energy production facilities, greenhouses, food processing plants, soil management systems and erosion control structures, irrigation and drainage systems, wastewater and solid waste treatment/recycling operations, animal housing facilities, aquaculture enterprises, systems for improved air quality, and equipment for agricultural production, material handling, processing, and packaging. Job opportunities for BSE graduates remain plentiful and show no signs of decreasing given (1) the increase in world population and corresponding increasing need for food, fiber and renewable energy, (2) the measurable shortage of highly trained technical personnel in the United States, and (3) the constantly expanding emphasis on protection and conservation of natural resources.

The UW-Madison BSE program is traditionally known for its emphasis on undergraduate education which is reflected in outstanding one-on-one advising and smaller class sizes.

The BSE program requires completion of a minimum of 125 credits to be eligible for graduation. Note that this is higher than the minimum for other CALS programs.

### HOW TO GET IN

Entry to this professional program requires students to meet the five admission requirements detailed below. Students are admitted to the department as pre-Biological Systems Engineering until they meet the admission criteria. **Admission eligibility must be confirmed by the department.**

1. Must complete a minimum of 24 degree credits.
2. Must have completed a minimum of 17 credits of calculus, statistics, chemistry, computer science, statics, biology, and physics courses required for a BSE degree.
3. Must have a BSE math and science grade point average (M&SGPA) of at least 2.80 with a minimum grade of C in every course used to calculate the M&SGPA. The M&SGPA is based on: math courses numbered 217 and above; statistics courses numbered 224 and

above; all chemistry courses; all biology courses (courses with biological science breadth); computer sciences courses numbered 302 and above; E M A 201 Statics; and physics courses numbered 201 and above. For any course that a student repeats, only the most recent grade will be used in the calculation. Any transfer course from another university that is included in the previous list must be included in the GPA calculation. To calculate the M&SGPA, see Applications and Forms ([http://bse.wisc.edu/Current-Undergraduate-Applications\\_and\\_Forms.htm](http://bse.wisc.edu/Current-Undergraduate-Applications_and_Forms.htm)) on the BSE website.

- Must be in good academic standing—i.e., not on academic probation or dropped.
- Must successfully complete introductory chemistry (CHEM 103 & CHEM 104, or CHEM 109, or equivalent) and math through MATH 222.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly,

courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus—Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3
	or MATH 320 Linear Algebra and Differential Equations	
STAT 224	Introductory Statistics for Engineers	3
	or STAT 324 Introductory Applied Statistics for Engineers	
<b>Chemistry</b>		
Select one of the following:		5-9
	CHEM 109 Advanced General Chemistry (Recommended)	
	CHEM 103 & CHEM 104 General Chemistry I and General Chemistry II <sup>1</sup>	
<b>Biology</b>		
BSE 349	Quantitative Techniques for Biological Systems	3
One additional Biological Science breadth Course; the following courses are preferred choices: <sup>2</sup>		2-5
	BIOLOGY/ BOTANY/ ZOOLOGY 151	
	ZOOLOGY 153 Introductory Biology	
	BIOLOGY/BOTANY General Botany 130	

BIOLOGY/ ZOOLOGY 101	Animal Biology	
MICROBIO 101	General Microbiology <sup>3</sup>	
MICROBIO 303	Biology of Microorganisms <sup>3</sup>	
<b>Physics</b>		
E M A 201	Statics <sup>4</sup>	3
PHYSICS 202	General Physics	5
<b>Foundation</b>		
Select one of the following:		3
COMP SCI 310	Problem Solving Using Computers (Preferred)	
CBE 255	Introduction to Chemical Process Modeling	
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	
Select one of the following:		3
I SY E 313	Engineering Economic Analysis (Preferred)	
M E 314	Manufacturing Fundamentals	
ACCT I S 300	Accounting Principles	
ECON/FINANCE 300	Introduction to Finance	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
BSE 270	Introduction to Computer Aided Design	3
<b>Core</b>		
BSE 249	Engineering Principles for Biological Systems <sup>5</sup>	3
or CBE 250	Process Synthesis	
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE 308	Career Management for Engineers	1
<b>Specialization within the Major<sup>6</sup></b>		18-35
Select one of the following:		
General Program		
Food & Bioprocess Engineering Specialization		
Natural Resources and Environment Specialization		
Machinery Systems Engineering Specialization		
<b>Technical Electives</b>		
Select courses from one or more of the four technical elective categories to bring the total number of credits in the General Program Area or in the selected specialization area to 43		
<b>Capstone</b>		
BSE 508	Biological Systems Engineering Design Practicum I	2
BSE 509	Biological Systems Engineering Design Practicum II	3
Fundamentals of Engineering Exam Required <sup>7</sup>		
Total Credits		76-100

<sup>1</sup> Taking the combination of CHEM 103 and CHEM 104 instead of CHEM 109 may increase the total minimum number of credits required for graduation.

<sup>2</sup> Any biological science course of 2 or more credits is accepted. Additional courses taken may be counted as Technical Electives.

<sup>3</sup> MICROBIO 101 or MICROBIO 303 required for Food & Bioprocess Engineering specialization.

<sup>4</sup> E M A 201 Statics is an acceptable prerequisite for PHYSICS 202 General Physics.

<sup>5</sup> Students selecting the Food & Bioprocess Engineering option who plan to enroll in CBE 310 Chemical Process Thermodynamics and CBE/B M E 320 Introductory Transport Phenomena must take CBE 250 here as a prerequisite. Students selecting the Food & Bioprocess Engineering option who plan to enroll in M E 361 Thermodynamics and M E 363 Fluid Dynamics are recommended to take BSE 249 here.

<sup>6</sup> See below for the breakdown of required courses for each specialization.

<sup>7</sup> Grades for BSE 509 will not be posted until proof of examination is presented.

## NAMED OPTIONS WITHIN THE MAJOR GENERAL PROGRAM

Code	Title	Credits
M E 361	Thermodynamics <sup>1</sup>	3
or CBE 310	Chemical Process Thermodynamics	
Select one of the following: <sup>1</sup>		3-4
M E 363	Fluid Dynamics	
CIV ENGR 310	Fluid Mechanics	
B M E/CBE 320	Introductory Transport Phenomena	
BSE 464	Heat and Mass Transfer in Biological Systems	3
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
Select a minimum of three of the following:		6-9
BSE 201	Land Surveying Fundamentals	
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE/FOOD SCI/ M E 441	Rheology of Foods and Biomaterials	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Irrigation and Drainage Systems Design	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE 571	Small Watershed Engineering	
BSE/ FOOD SCI 642	Food and Pharmaceutical Separations	

Select a minimum of 9 credits of 300 level or above non-BSE engineering courses	9
Total Credits	27-31

<sup>1</sup> Take BSE 249 and M E 361 and M E 364, or take CBE 250 and CBE 310 and CBE/B M E 320.

## FOOD & BIOPROCESS ENGINEERING SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
CHEM 341	Elementary Organic Chemistry (preferred)	3
or CHEM 343	Introductory Organic Chemistry	
M E 361	Thermodynamics <sup>1</sup>	3
or CBE 310	Chemical Process Thermodynamics	
B M E/CBE 320	Introductory Transport Phenomena <sup>1</sup>	4
or M E 363	Fluid Dynamics	
BSE 464	Heat and Mass Transfer in Biological Systems	3
Select one of the following:		14-19
Food Engineering Track		
Bioprocess Engineering Track		
Total Credits		27-32

<sup>1</sup> Take BSE 249 and M E 361 and M E 364, or take CBE 250 and CBE 310 and CBE/B M E 320.

### Food Engineering Track

Code	Title	Credits
FOOD SCI/MICROBIO 325	Food Microbiology	3
FOOD SCI 410	Food Chemistry	3
FOOD SCI 432	Principles of Food Preservation	3
FOOD SCI 532	Integrated Food Manufacturing	4
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE 461	Food and Bioprocessing Operations	3
Select one of the following BSE breadth courses:		2-3
BSE/ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Irrigation and Drainage Systems Design	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	

BSE 571	Small Watershed Engineering	
Total Credits		21-22

### Bioprocess Engineering Track

Code	Title	Credits
MICROBIO 102	General Microbiology Laboratory	2
or MICROBIO 304	Biology of Microorganisms Laboratory	
BIOCHEM 501	Introduction to Biochemistry	3
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
BSE 461	Food and Bioprocessing Operations	3

Select one of the following BSE breadth courses:

BSE/CIV ENGR/SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE/FOOD SCI/M E 441	Rheology of Foods and Biomaterials	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Irrigation and Drainage Systems Design	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE 571	Small Watershed Engineering	

Total Credits		17
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## NATURAL RESOURCES AND ENVIRONMENT SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
BSE/CIV ENGR/SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	2
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3
BSE 473	Irrigation and Drainage Systems Design	2
BSE 571	Small Watershed Engineering	3
M E 361	Thermodynamics	3
CIV ENGR 310	Fluid Mechanics	3
or M E 363	Fluid Dynamics	
BSE 201	Land Surveying Fundamentals	1
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
ENVIR ST/GEOG/SOIL SCI 230	Soil: Ecosystem and Resource	3
or SOIL SCI 301	General Soil Science	
Select one of the following BSE breadth courses:		2-3
BSE/ENVIR ST 367	Renewable Energy Systems	



BSE/FOOD SCI/ M E 441	Rheology of Foods and Biomaterials	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE/ FOOD SCI 642	Food and Pharmaceutical Separations	
Total Credits		25-26

## MACHINERY SYSTEMS ENGINEERING SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
BSE/M E 475	Engineering Principles of Agricultural Machinery	3
BSE/M E 476	Engineering Principles of Off-Road Vehicles	3
E M A 202 or M E 240	Dynamics	3
E M A/M E 307	Mechanics of Materials Lab	1
M E 231	Introductory Engineering Graphics	2
M E 306	Mechanics of Materials	3
M E 313	Manufacturing Processes	3
M E 340	Introduction to Dynamic Systems	3
M E 342	Design of Machine Elements	3
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
Select one of the following BSE breadth courses:		2-3
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE/FOOD SCI/ M E 441	Rheology of Foods and Biomaterials	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Irrigation and Drainage Systems Design	
BSE 571	Small Watershed Engineering	
BSE/ FOOD SCI 642	Food and Pharmaceutical Separations	
Total Credits		32-33

## TECHNICAL ELECTIVES

Select courses from one or more of the following four technical elective categories to bring the total number of credits in the General Program Area or in the selected specialization area to 43. See the BSE

Undergraduate Student Handbook for a list of recommended technical electives for various areas of specialization.

## A. INTRODUCTION TO ENGINEERING COURSES (FRESHMEN ONLY)

Code	Title	Credits
INTEREGR 101	Contemporary Issues in the Engineering Profession	2
INTEREGR 102	Introduction to Society's Engineering Grand Challenges	2
INTEREGR 111	Introduction to the Engineering Design Process and Profession	2
INTEREGR 160	Introduction to Engineering Design	3

## B. INDEPENDENT STUDY/INSTRUCTION COURSES

CALS or CoE courses with a 001, 299, 399, or 699 course number. No more than 3 credits of coursework in this category can be used to meet technical elective requirements.

## C. UPPER-LEVEL COURSES

### Part 1. Upper-Level Engineering Courses

This includes BSE courses not taken to meet other curricular requirements. This does not include independent study/instruction courses.

Code	Title	Credits
Any Engineering course numbered 300 or above		
E M A 202 or M E 240	Dynamics	3

### Part 2. Upper-Level Science Courses

This includes BSE courses not taken to meet other curricular requirements. This does not include independent study/instruction courses.

Code	Title	Credits
Advanced biological, natural, and physical science courses (i.e., courses with a B, N, or P designation)		
CHEM 341	Elementary Organic Chemistry	3
CHEM 342	Elementary Organic Chemistry Laboratory	1
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
CHEM/M S & E 421	Polymeric Materials	3
AGRONOMY/ATM OCN/SOIL SCI 532	Environmental Biophysics	3

## D. LOWER-LEVEL SCIENCE AND ENGINEERING COURSES, BREADTH COURSES

Elementary and intermediate biological, natural and physical science courses except elementary and intermediate math courses; College of Engineering courses with a 100 or 200 level designation; College of Agricultural and Life Sciences courses, Institute of Environmental Studies courses, and/or School of Business courses. Independent study/instruction courses cannot be counted in this category. No more than

12 credits of coursework in this category can be used to meet technical elective requirements.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- The ability to analyze systems, components and processes. This includes:
  - the ability to apply knowledge of mathematics, science, and engineering fundamentals.
  - the ability to use the techniques and tools of modern engineering practice.
  - the ability to identify, formulate, and solve engineering problems.
- The ability to create a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- The ability to formulate and conduct basic investigations such as laboratory experiments, prototype tests, field trials, computer simulations and market analyses.
- The ability to identify important resources, and to retrieve, interpret, analyze and critique information for use in solving engineering problems and conducting basic investigations.
- The ability to communicate effectively. This includes:
  - the ability to effectively orally communicate.
  - the ability to write in a clear, concise, grammatically correct and organized manner.
  - the ability to document work activities and properly archive information.
  - the ability to develop appropriate illustrations including hand sketches, computer generated drawings/graphs and pictures.
- An understanding of professional and ethical responsibility.
- The ability to function on multidisciplinary teams.
- The broad education necessary to understand and assess the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognition of the need, and the ability to engage in lifelong learning.
- Knowledge of contemporary issues.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—GENERAL PROGRAM

##### Freshman

Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
INTEREGR 170 or 110	2 PHYSICS 202	5
CHEM 109 <sup>1</sup>	5 E M A 201	3
BSE 270	3 E P D 155	2
	15	14

Total Credits 29

##### Sophomore

Fall	Credits Spring	Credits
COMP SCI 310	3 STAT 224	3
MATH 234	4 BSE 349	3
BSE 249	3 M E 361	3
Biological Science Course	3 M E 306	3
300 level or higher non-BSE engineering course	3 BSE 365	3
	BSE 308	1
	16	16

Total Credits 32

##### Junior

Fall	Credits Spring	Credits
MATH 320	3 EPD 397 or other COMM B	3
BSE Course	3 M E 363	3
I SYE 313	3 BSE 508	2
General Education Course	3 BSE Course	3
Technical Elective Course	3 General Education Courses	6
	15	17

Total Credits 32

##### Senior

Fall	Credits Spring	Credits
BSE 509	3 BSE 364	3
BSE Course	3 General Education Course	3
Technical Electives	7 300 level or higher non-BSE engineering course	6

General Education Course	3 Free Elective Course	3
	16	15

Total Credits 31

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—FOOD AND BIOPROCESS ENGINEERING SPECIALIZATION—BIOPROCESS ENGINEERING TRACK

#### Freshman

Fall	Credits Spring	Credits
MATH 221	5 E M A 201	3
CHEM 109 <sup>1</sup>	5 PHYSICS 202	5
INTEREGR 170 or 110	2 E P D 155	2
BSE 270	3 MATH 222	4
	15	14

Total Credits 29

#### Sophomore

Fall	Credits Spring	Credits
BSE 249 or CBE 250	3 BSE 349	3
MATH 234	4 MATH 320	3
CHEM 341	3 BSE 365	3
MICROBIO 101 & MICROBIO 102	5 COMP SCI 310	3
	STAT 224	3
	BSE 308	1
	15	16

Total Credits 31

#### Junior

Fall	Credits Spring	Credits
M E 361	3 BSE 508	2
BSE/ENVIR ST 367	3 BSE 460	3
BIOCHEM 501	3 M E 363 or CBE 320	3-4
E P D 397	3 Technical Electives	3
BSE 461	3 General Education Courses	3-6
	15	14-18

Total Credits 29-33

#### Senior

Fall	Credits Spring	Credits
I SYE 313	3 BSE 464	3
BSE 509	3 General Education Courses	6
BSE Breadth Requirement	3 Technical Electives	4-5
Technical Electives	3 Free Elective Course	3

General Education Course	3	
	15	16-17

Total Credits 31-32

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—FOOD AND BIOPROCESS ENGINEERING SPECIALIZATION—FOOD ENGINEERING TRACK

#### Freshman

Fall	Credits Spring	Credits
MATH 221	5 MICROBIO 101	3
CHEM 109 <sup>1</sup>	5 PHYSICS 202	5
INTEREGR 170 or 110	2 E P D 155	2
BSE 270	3 MATH 222	4
	15	14

Total Credits 29

#### Sophomore

Fall	Credits Spring	Credits
BSE 249 or CBE 250	3 BSE 349	3
MATH 234	4 BSE 365	3
E M A 201	3 MATH 320	3
General Education Course	3 COMP SCI 310	3
	STAT 224	3
	BSE 308	1
	13	16

Total Credits 29

#### Junior

Fall	Credits Spring	Credits
FOOD SCI 410	3 General Education Course	3
MICROBIO/FOOD SCI 325	3 FOOD SCI 432	3
M E 361 or CBE 310	3 BSE 508	2
E P D 397	3 M E 363 or CBE 320	3-4
BSE 461	3 I SYE 313	3
	15	14-15

Total Credits 29-30

#### Senior

Fall	Credits Spring	Credits
FOOD SCI 532	4 General Education Courses	6
BSE 509	3 BSE/FOOD SCI/M E 441	3
General Education Course	3 BSE 464	3

BSE Breadth Requirement	3 Technical Elective	2-3
Technical Elective	3 Free Elective Course	3
	16	17-18

Total Credits 33-34

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

## SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—MACHINERY SYSTEMS ENGINEERING SPECIALIZATION

### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
CHEM 109 <sup>1</sup>	5	PHYSICS 202	5
INTEREGR 170 or 110	2	E M A 201	3
E P D 155	2	M E 231	2
	14		14

Total Credits 28

### Sophomore

Fall	Credits	Spring	Credits
MATH 234	4	M E 361	3
COMP SCI 310	3	M E 306	3
E M A 202	3	M E/E M A 307	1
Biological Science Course	3	STAT 224 or 324	3
BSE 249	3	BSE 349	3
		BSE 365	3
		BSE 308	1
	16		17

Total Credits 33

### Junior

Fall	Credits	Spring	Credits
BSE/M E 475	3	M E 340	3
MATH 320	3	BSE/M E 476	3
M E 363	3	E P D 397	3
I SYE 313	3	M E 313	3
BSE 270	2	BSE 508	2
		General Education Course	3
	15		17

Total Credits 32

### Senior

Fall	Credits	Spring	Credits
BSE 509	3	General Education Courses	9
BSE Breadth Requirement	3	Technical Electives	6

General Education Course	3
Technical Elective	4
M E 342	3
	16
	15

Total Credits 31

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

## SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—NATURAL RESOURCES AND ENVIRONMENT SPECIALIZATION

### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
INTEREGR 170 or 110	2	PHYSICS 202	5
CHEM 109 <sup>1</sup>	5	E M A 201	3
BSE 270	3	E P D 155	2
	15		14

Total Credits 29

### Sophomore

Fall	Credits	Spring	Credits
COMP SCI 310	3	STAT 224	3
MATH 234	4	BSE 349	3
BSE 249	3	BSE 365	3
SOIL SCI 301 or 230	4	BSE 472	3
BSE 201	1	Biological Sciences Course	3
		BSE 308	1
	15		16

Total Credits 31

### Junior

Fall	Credits	Spring	Credits
MATH 320	3	E P D 397	3
BSE 473	2	E M A 303	3
CIV ENGR 310	3	BSE 508	2
BSE/CIV ENGR/SOIL SCI 372	2	BSE 571	3
I SYE 313	3	General Education Courses	6
Technical Elective	3		
	16		17

Total Credits 33

### Senior

Fall	Credits	Spring	Credits
BSE 509	3	Technical Electives	7
M E 361	3	General Education Courses	6

Technical Elective	3 Free Elective Course	3
BSE Breadth Requirement	3	
General Education Course	3	
	15	16

Total Credits 31

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

## SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN –STRUCTURAL SYSTEMS ENGINEERING SPECIALIZATION

### Freshman

Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
INTEREGR 170 or 110	2 PHYSICS 202	5
CHEM 109 <sup>1</sup>	5 E M A 201	3
BSE 270	3 E P D 155	2
	15	14

Total Credits 29

### Sophomore

Fall	Credits Spring	Credits
MATH 234	4 BSE/DS 356/ LAND ARC 356	3
COMP SCI 310	3 E M A 303	3
BSE 249	3 E M A/M E 307	1
BSE 201	1 STAT 224	3
E M A 202	3 BSE 349	3
	General Education Course	3
	BSE 308	1
	14	17

Total Credits 31

### Junior

Fall	Credits Spring	Credits
MATH 320	3 M E 361	3
CIV ENGR 340	4 E P D 397	3
CIV ENGR 310	3 BSE 508	2
I SYE 313	3 BSE 365	3
BSE 351	3 Technical Elective	3
	General Education Course	3
	16	17

Total Credits 33

### Senior

Fall	Credits Spring	Credits
BSE 509	3 BSE 464	3

BSE Breadth Requirement	3 Technical Electives	3
Technical Elective	4 General Education Courses	6
Biological Science Course	3 Free Elective Course	3
General Education Course	3	
	16	15

Total Credits 31

<sup>1</sup> If CHEM 103 & CHEM 104 is taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of year 1.

- Need 125 credits to complete degree.

## ADVISING AND CAREERS

Students are assigned a faculty advisor when they declare the major or become pre-biological systems engineering. Prospective students should contact the department at bse@wisc.edu or 608-262-3310 for more information.

Graduates work in career fields associated with the growth, harvest, transportation, processing and storage of food, feedstuffs, biomass for energy production and forestry products. This includes, but is not limited to, jobs involving the design, construction and management of: bio-energy production facilities, greenhouses, food processing plants, soil management systems and erosion control structures, irrigation and drainage systems, wastewater and solid waste treatment/recycling operations, animal housing facilities, aquaculture enterprises, systems for improved air quality, and equipment for agricultural production, material handling, processing, and packaging. Job opportunities for BSE graduates remain plentiful and show no signs of decreasing given (1) the increase in world population and corresponding increasing need for food, fiber and renewable energy, (2) the measurable shortage of highly trained technical personnel in the United States, and (3) the constantly expanding emphasis on protection and conservation of natural resources.

## PEOPLE

### PROFESSORS

Robert Anex, Dave Bohnhoff, Christopher Choi, Sundaram Gunasekaran, Awad Hanna, David Kammel, Krishnapuram Karthikeyan, John Ralph, Douglas Reinemann (chair), John Shutske, Kevin Shinnars, Richard Straub, Anita Thompson

### ASSOCIATE PROFESSORS

Xuejun Pan, Troy Runge

### ASSISTANT PROFESSORS

Rebecca Larson, Brian Luck

### STAFF

Department Administrator: Susan Reinen

Student Services: Betsy Wood

Payroll: Pam Spahn

Financial: Terry Meyer

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY

Sociologists study human social behavior and how societies are organized. The Department of Community and Environmental Sociology's focus is on the relationship between people and their natural environment and with the communities in which people live, work, and play.

A major in community and environmental sociology is good preparation for jobs that involve an understanding of social issues, require knowledge of the functioning and organization of communities and the relationship between people and the natural environment, and involve data collection or data analysis. Community and environmental sociology graduates may be employed in nongovernmental organizations (NGOs) that focus on a number of issues surrounding community development, environment, and advocacy, governmental planning or social service agencies, agricultural or environmental organizations, and cooperative or agribusiness enterprises. A major in community and environmental sociology also provides excellent preparation for careers in international development, law, and further academic work in sociology or other social sciences.

The Department of Community and Environmental Sociology offers a wide range of courses for both beginning and advanced students. The department's introductory course, C&E SOC/SOC 140 Introduction to Community and Environmental Sociology, is designed to explore the changing nature of rural development in the global economy. In addition, a set of 200-level courses offers students an introduction to sociological concepts through the exploration of particular subject areas such as gender and work, food, the environment, and population change.

UW–Madison community and environmental sociologists teach about a wide range of issues that are of critical importance to people and communities from Wisconsin to the low-income countries of the developing world. For example, students can study such matters as the growing controversies around energy, the implementation of environmental laws, sustainability, and the special problems and unique concerns of people in resource-dependent communities. Students can also focus on issues such as the effect of new agricultural technologies on family farms, the ways gender and race affect educational and occupational opportunities, and how community leaders and citizens address problems such as urban sprawl or rural poverty. In addition, students can examine issues such as population growth, the causes of world hunger, tropical rainforest destruction, and the prospects for achieving sustainable development in poor countries.

Many community and environmental sociology students build on their major by selecting one of the certificate programs available from the College of Agricultural and Life Sciences or from other UW–Madison schools or colleges. Certificate programs enable students to expand their skills and study particular topics or issues in more depth. Community and environmental sociology majors often choose certificate programs in the concentration in analysis and research, gender and women's studies, criminology, and environmental studies. Many students choose to pursue a double major, combining C&E sociology with fields such as Spanish, environmental studies, nutritional sciences, agronomy, forest science, wildlife ecology, or environmental science.

## DEGREES/MAJORS/CERTIFICATES

- Community and Environmental Sociology, B.S. (p. 102)

## PEOPLE

### PROFESSORS

Bell, Collins, Green (chair), Stoecker, Tigges

### ASSOCIATE PROFESSORS

Alatout, Curtis, Feinstein

### ASSISTANT PROFESSORS

Garoon, White

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY, B.S.

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## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Core</b>		
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	3
C&E SOC/SOC 475	Classical Sociological Theory	3
C&E SOC/SOC 357	Methods of Sociological Inquiry	3-4
C&E SOC/SOC 360	Statistics for Sociologists I <sup>1</sup>	4
<b>Electives within the Major <sup>2</sup></b>		
Select 6-9 credits from the Community course set <sup>3</sup>		6-9
Select 6-9 credits from the Environment course set <sup>3</sup>		6-9
<b>Capstone</b>		
C&E SOC 500	Capstone Experience	3
Total Credits		28-35

<sup>1</sup> We strongly encourage our majors to take C&E SOC/SOC 360 Statistics for Sociologists I if they have not already taken a statistics course at time of major declaration. Acceptable statistics courses other than C&E SOC/SOC 360 Statistics for Sociologists I are: STAT 301 Introduction to Statistical Methods, STAT 371 Introductory Applied Statistics for the Life Sciences, ECON 310 Statistics: Measurement in Economics, PSYCH 210 Basic Statistics for Psychology, PSYCH 280 Honors Basic Statistics for Psychology, GEOG 360 Quantitative Methods in Geographical Analysis, MATH/STAT 310 Introduction to Probability and Mathematical Statistics II, and GEN BUS 303 Business Statistics. Please note that statistics courses taken outside the major do not count toward the credit requirement in the major.

<sup>2</sup> Must complete a total of 15 credits of Community and Environment electives. No more than 6 credits may be 100- or 200-level courses. At least 6 credits must be taken in each course set.

<sup>3</sup> Consult advisor to request permission to use C&E SOC 299 Independent Study, C&E SOC 399 Coordinative Internship/Cooperative Education, or C&E SOC 699 Special Problems toward the Community or Environmental course sets. No more than 4 such credits may be counted toward the major.

## ELECTIVE COURSES WITHIN THE MAJOR

### COMMUNITY COURSE SET

Code	Title	Credits
C&E SOC/SOC 210	Survey of Sociology	3-4
C&E SOC/SOC 211	The Sociological Enterprise	3
C&E SOC/GEN&WS/SOC 215	Gender and Work in Rural America	3
C&E SOC/SOC 245	Technology and Society	3
C&E SOC/AFROAMER/ANTHRO/GEOG/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260	Latin America: An Introduction	3-4
C&E SOC/SOC 365	Data Management for Sociological Research	3-4
C&E SOC 375	Special Topics	1-4
C&E SOC/POP HLTH/SOC 380	Contemporary Population Problems for Honors	3
C&E SOC/SOC 532	Health Care Issues for Individuals, Families and Society	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
C&E SOC/ENVIR ST/SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/AGRONOMY/MED HIST/PHILOS 565	The Ethics of Modern Biotechnology	3-4
C&E SOC/SOC 573	Community Organization and Change	3
C&E SOC/AMER IND/SOC 578	Poverty and Place	3

C&E SOC/GEN&WS/SOC 601	Sociology of Work, Family, and Gender	3
C&E SOC/SOC 610	Knowledge and Society	3
C&E SOC/SOC/URB R PL 617	Community Development	3
C&E SOC/SOC 622	Advanced Topics in Critical Sociology	3
C&E SOC/SOC 623	Gender, Society, and Politics	3
C&E SOC/SOC 630	Sociology of Developing Societies/Third World	3
C&E SOC/SOC/URB R PL 645	Modern American Communities	3
C&E SOC/SOC 649	Sociology of Work and Employment	3
C&E SOC/SOC 652	Sociology of Economic Institutions	3
C&E SOC/SOC 655	Microfoundations of Economic Sociology	3
C&E SOC/SOC 676	Applied Demography: Planning and Policy	3
C&E SOC/SOC 693	Practicum in Analysis and Research	3

### ENVIRONMENT COURSE SET

Code	Title	Credits
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/HIST SCI 230	Agriculture and Social Change in Western History	3
C&E SOC/F&W ECOL/SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/A A E/SOC 340	Issues in Food Systems	3-4
C&E SOC 375	Special Topics	1-4
C&E SOC/ENVIR ST/GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
C&E SOC/AGRONOMY/MED HIST/PHILOS 565	The Ethics of Modern Biotechnology	3-4
C&E SOC/SOC 650	Sociology of Agriculture	3
C&E SOC/SOC 693	Practicum in Analysis and Research	3

## CREDIT REQUIREMENT

Must complete a total of 30 credits of C&E Soc courses. Students may count up to 4 credits of Independent Study (C&E SOC 299 Independent Study, C&E SOC 699 Special Problems), Internship (C&E SOC 399 Coordinative Internship/Cooperative Education), or Thesis (C&E SOC 681 Senior Honors Thesis/C&E SOC 682 Senior Honors Thesis/C&E SOC 691 Senior Thesis/C&E SOC 692 Senior Thesis) here. SOC/C&E SOC 475 Classical Sociological Theory may count here.



## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Understand how social science arguments are constructed and evaluated.
2. Develop ability to assess data quality and understand whether particular data is appropriate to answer specific questions.
3. Learn general theories on basic social processes, especially those related to the relationships between society and the environment and the social organization of communities.
4. Learn communication skills in the social sciences.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE COMMUNITY AND ENVIRONMENTAL SOCIOLOGY FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
COMM A or COMM B Course	2-3 COMM A or COMM B Course	2-3
C&E SOC/SOC 140	3 CHEM 103, 108, or 109	4-5
First Year Seminar	1 C&E SOC Elective <sup>2</sup>	3
Electives <sup>1</sup>	9 Electives (to reach ~15 credits)	4-6
	15-16	13-17

Total Credits 28-33

##### Sophomore

Fall	Credits Spring	Credits
C&E SOC/SOC 357	3 C&E SOC Elective	3
C&E SOC Elective	3 Biological Science Course	2

Biological Science Course	3 Humanities Elective	3
Electives	6 Additional Electives	6
	15	14

Total Credits 29

##### Junior

Fall	Credits Spring	Credits
C&E SOC/SOC 360	4 C&E SOC/SOC 475	3
C&E SOC Elective	3 International Studies	3
Humanities Elective	3 Additional Science Course	3
Additional Electives	6 Electives	6
	16	15

Total Credits 31

##### Senior

Fall	Credits Spring	Credits
C&E SOC 500	3 Ethnic Studies	3
Electives	12 Electives	12
	15	15

Total Credits 30

<sup>1</sup> Electives should be chosen in order to satisfy UW and CALS requirements. See Requirements tab for details.

<sup>2</sup> C&E SOC electives include the Community course set and the Environmental course set. See Requirements tab for details.

The above plan assumes that a student enters with standard high school preparation (algebra, geometry, third-year math, two years' foreign language).

## ADVISING AND CAREERS

Students are assigned a faculty advisor once they declare the major. Prospective students are welcome to contact Professors Leann Tigges (lmtigges@wisc.edu) or Gary Green (gpgreen@wisc.edu) for more information.

Community and environmental sociology graduates may be employed in nongovernmental organizations (NGOs) that focus on a number of issues surrounding community development, environment, and advocacy, governmental planning or social service agencies, agricultural or environmental organizations, and cooperative or agribusiness enterprises. A major in community and environmental sociology also provides excellent preparation for careers in international development, law, and further academic work in sociology or other social sciences.

## PEOPLE

### PROFESSORS

Bell, Collins, Green (chair), Stoecker, Tigges

### ASSOCIATE PROFESSORS

Alatout, Curtis, Feinstein

## ASSISTANT PROFESSORS

Garoon, White

### DAIRY SCIENCE

Undergraduates in dairy science prepare for a variety of career opportunities that require a strong background in applied animal biology. Careers include: agribusiness, dairy farm management, technical service and consulting, research, and teaching. Students also enroll in the department to prepare for veterinary school, medical school, or graduate school. Coursework in the major includes animal genetics, lactation, reproduction, nutrition and management. The department may be consulted for additional details and for specific career information.

The dairy science major can be earned under the bachelor of science degree program. The dairy science major may be combined with other majors such as agricultural and applied economics, biological systems engineering, genetics, life sciences communication, and agronomy. Multiple out-of-classroom learning opportunities are included in the curriculum and internships on farms or with agribusiness are required to provide the practical training needed for success in any 21st-century careers. Many students gain valuable experience through part-time employment in research labs or in the student-operated dairy cattle instruction and research center.

Discoveries from the research laboratories reach the classroom long before they appear in textbooks. Students benefit from integration of the instructional and research programs of the department. The co-curricular Badger Dairy Club (<http://badgerdairyclub.com>) involves students in dairy industry events that provide leadership and networking opportunities in a vibrant industry.

### DEGREES/MAJORS/CERTIFICATES

- Dairy Science, B.S. (p. 106)

### PEOPLE

#### PROFESSORS

Combs, Fricke, Gianola, Jones, Ruegg, Shaver, Wattiaux, Weigel (chair), Wiltbank

#### ASSOCIATE PROFESSORS

Cabrera, Hernandez

#### ASSISTANT PROFESSOR

White

#### FACULTY ASSOCIATE

Halbach

### DAIRY SCIENCE, B.S.

Undergraduates in dairy science prepare for a variety of career opportunities that require a strong background in applied animal biology. Careers include: agribusiness, dairy farm management, technical service and consulting, research, and teaching. Students also enroll in the department to prepare for veterinary school, medical school, or graduate

school. Coursework in the major includes animal genetics, lactation, reproduction, nutrition and management. The department may be consulted for additional details and for specific career information.

The dairy science major can be earned under the bachelor of science degree program. The dairy science major may be combined with other majors such as agricultural and applied economics, biological systems engineering, genetics, life sciences communication, and agronomy. Multiple out-of-classroom learning opportunities are included in the curriculum and internships on farms or with agribusiness are required to provide the practical training needed for success in any 21st-century careers. Many students gain valuable experience through part-time employment in research labs or in the student-operated dairy cattle instruction and research center.

Discoveries from the research laboratories reach the classroom long before they appear in textbooks. Students benefit from integration of the instructional and research programs of the department. The co-curricular Badger Dairy Club (<http://badgerdairyclub.com>) involves students in dairy industry events that provide leadership and networking opportunities in a vibrant industry.

### HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see Entering the College (p. 30).

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

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
Select one of the following:		3
STAT 301 or STAT 371	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Select one of the following:		4-5
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		9-10
Option 1:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
AGRONOMY 100	Principles and Practices in Crop Production	
Option 2:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Option 3:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Select one of the following:		3
GENETICS 466	Principles of Genetics	
CHEM 341	Elementary Organic Chemistry	
MICROBIO 101	General Microbiology	
MICROBIO 303	Biology of Microorganisms	
M M & I 341	Immunology	
<b>Biochemistry</b>		
Select one of the following:		3-6
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	

BMOLCHEM 314 Introduction to Human Biochemistry (offered during summer session only)

### Economics

Select one of the following: 3-4

A A E 215 Introduction to Agricultural and Applied Economics

ECON 101 Principles of Microeconomics

### DAIRY SCIENCE

#### Core

AN SCI/DY SCI 101 Introduction to Animal Sciences 4

DY SCI 233 Dairy Herd Management I 3

DY SCI 234 Dairy Herd Management II 3

DY SCI 305 Lactation Physiology 3

AN SCI/DY SCI/NUTR SCI 311 Comparative Animal Nutrition 3

AN SCI/DY SCI 313 Animal Feeds and Diet Formulation 1

AN SCI/DY SCI 361 Introduction to Animal and Veterinary Genetics 2

AN SCI/DY SCI 362 Veterinary Genetics 2  
or AN SCI/DY SCI 363 Principles of Animal Breeding

AN SCI/DY SCI 373 Animal Physiology 3

AN SCI/DY SCI 414 Ruminant Nutrition 2

AN SCI/DY SCI 434 Reproductive Physiology 3

#### Capstone

DY SCI 399 Coordinative Internship/Cooperative Education 1-8

DY SCI 535 Dairy Farm Management Practicum 3

#### Dairy Science Electives

Select at least 3 credits from: 3

DY SCI 205 Dairy Cattle Selection

DY SCI 272 Pre-Capstone Seminar

DY SCI 289 Honors Independent Study <sup>1</sup>

DY SCI 299 Independent Study <sup>1</sup>

DY SCI/AN SCI 370 Livestock Production and Health in Agricultural Development

DY SCI/AGROECOL/AGRONOMY 371 Managed Grazing Field Study

DY SCI 375 Special Topics <sup>1</sup>

DY SCI/AN SCI/FOOD SCI/SOIL SCI 472 Animal Agriculture and Global Sustainable Development

DY SCI/AN SCI/FOOD SCI/SOIL SCI 473 International Field Study in Animal Agriculture and Sustainable Development

DY SCI 534 Reproductive Management of Dairy Cattle

DY SCI 681 Senior Honors Thesis <sup>1</sup>

DY SCI 682 Senior Honors Thesis <sup>1</sup>

DY SCI 699 Special Problems <sup>1</sup>

Total Credits 64-79

<sup>1</sup> Consult with your advisor for details.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

- To gain knowledge of current and emerging research based information in animal biology and management sciences to support dairy production.  
The first learning outcome relates to the biological structure and function of the (ruminant) dairy cow and its particular aspects compared with other food-producing animals. Students are expected to become proficient in the fundamental and applied aspects of reproduction, genetic selection, milk secretion, and nutrition, as well as management practices that enhance the health and welfare of dairy cattle. In addition, students are expected to gain an understanding of the farm-level economic, environmental and social challenges facing dairy producers. Finally, students are expected to appreciate the place that dairy production and animal agriculture hold in state, regional, national and global food production and its contribution to nutritional needs and health of a growing population.
- To gain intellectual, practical and attitudinal skills needed to identify and solve problems and challenges facing dairy producers and allied industries.  
The second learning outcome relates to students' gain in intellectual and practical skills as well as personal attitude. We expect our students to practice and refine their soft skills. Soft skills are personal attributes that enable someone to interact effectively with other people including but not limited to strong work ethic, positive attitude, good communication skills, time management abilities, problem-solving skills, acting as a team player, self confidence, ability to accept and learn from criticism, flexibility/adaptability, and working well under pressure.
- To gain in life-long learning skills to enable graduates to adapt to changing technological, economic and social circumstances throughout their professional career.  
The third learning outcome relates to enabling students' leadership skills, continued growth and success in their professional career in

a way that contribute also to the success of the dairy industry in Wisconsin, the nation and globally.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE DAIRY SCIENCE FOUR-YEAR PLAN

Freshman		
Fall	Credits Spring	Credits
AGRONOMY 100	4 A A E 215	3
DY SCI/AN SCI 101	4 CHEM 103	4
MATH 112	3 DY SCI 205	2
First Year Seminar	1 ZOOLOGY/BIOLOGY 101	3
COMM A Course	3 ZOOLOGY/BIOLOGY 102	2
	DY SCI 272	1
	15	15

Total Credits 30

Sophomore		
Fall	Credits Spring	Credits
CHEM 104	5 DY SCI 234	3
DY SCI 233	3 DY SCI/AN SCI 320	3
GENETICS 466	3 DY SCI/AN SCI 361	2
STAT 371	3 DY SCI/AN SCI 363	2
	DY SCI/AN SCI/ FOOD SCI/SOIL SCI 472	1
	Humanities / Literature / Arts Course	3
	14	14

Total Credits 28

Sophomore		Credits
Summer		
DY SCI/AN SCI/FOOD SCI/ SOIL SCI 473		2
		2

Total Credits 2

Junior		
Fall	Credits Spring	Credits
BIOCHEM 501	3 DY SCI/AN SCI/ NUTR SCI 311	3
DY SCI 305	3 DY SCI/AN SCI 313	1
DY SCI/AN SCI 370	3 DY SCI/AN SCI 373	3
Ethnic Studies Course	3 COMM B Course	3
Free Elective Course	3 Humanities / Literature / Arts Course	3
	Free Elective Course	3
	15	16

Total Credits 31

Junior		Credits
Summer		
DY SCI 399		1
		1

Total Credits 1

Senior		
Fall	Credits Spring	Credits
DY SCI/AN SCI 414	2 DY SCI/AN SCI/ ENVIR ST/SOIL SCI 468	2
DY SCI/AN SCI 434	3 DY SCI 535	3
DY SCI 690	1 DY SCI 375 <sup>1</sup>	3
Free Elective Courses	9 Free Elective Courses	6
	15	14

Total Credits 29

<sup>1</sup> Reproductive Management of Dairy Cattle

#### SAMPLE DAIRY SCIENCE FOUR-YEAR PLAN—PRE-VETERINARY

Freshman		
Fall	Credits Spring	Credits
CHEM 103	4 BIOLOGY/BOTANY/ ZOOLOGY 151	5
DY SCI/AN SCI 101	4 A A E 215	3
MATH 221	5 CHEM 104	5
COMM A Course	3 DY SCI 205	2
	First Year Seminar	1
	DY SCI 272	1
	16	17

Total Credits 33

Sophomore		
Fall	Credits Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151	5 CHEM 343	3
DY SCI 233	3 DY SCI 234	3
GENETICS 466	3 DY SCI/AN SCI 320	3
STAT 371	3 DY SCI/AN SCI 361	2
	DY SCI/AN SCI 363	2
	DY SCI/AN SCI/ FOOD SCI/SOIL SCI 472	1
	14	14

Total Credits 28

Sophomore		Credits
Summer		
DY SCI/AN SCI/FOOD SCI/ SOIL SCI 473		2
		2

Total Credits 2

Junior		
Fall	Credits Spring	Credits
BIOCHEM 501	3 DY SCI 299 <sup>1</sup>	1
DY SCI 305	3 DY SCI/AN SCI/ NUTR SCI 311	3
DY SCI/AN SCI 370	3 DY SCI/AN SCI 313	1
PHYSICS 103	4 DY SCI/AN SCI 373	3
Free Elective Course	3 PHYSICS 104	4
	Humanities / Literature / Arts Course	3
16		15

Total Credits 31

Junior		Credits
Summer		
DY SCI 399		1
		1

Total Credits 1

Senior		
Fall	Credits Spring	Credits
DY SCI/AN SCI 414	2 DY SCI/AN SCI/ ENVIR ST/SOIL SCI 468	2
DY SCI/AN SCI 434	3 DY SCI 535	3
DY SCI 690	1 DY SCI 375 <sup>2</sup>	3
Humanities / Literature / Arts Course	3 COMM B Course	3
Ethnic Studies Course	3 Free Elective Course	3
Free Elective Course	3	
15		14

Total Credits 29

<sup>1</sup> Undergraduate Research<sup>2</sup> Reproductive Management of Dairy Cattle

## ADVISING AND CAREERS

Students are assigned a faculty advisor once they declare the major. Prospective students are welcome to contact Ted Halbach (tjhalbach@wisc.edu, 608-219-5289) for more information.

Undergraduates in dairy science prepare for a variety of career opportunities that require a strong background in applied animal biology. Careers include: agribusiness, dairy farm management, technical service and consulting, research, and teaching. Students also enroll in the department to prepare for veterinary school, medical school, or graduate school. Coursework in the major includes animal genetics, lactation, reproduction, nutrition and management. The department may be consulted for additional details and for specific career information.

## PEOPLE

### PROFESSORS

Combs, Fricke, Gianola, Jones, Ruegg, Shaver, Wattiaux, Weigel (chair), Wiltbank

### ASSOCIATE PROFESSORS

Cabrera, Hernandez

### ASSISTANT PROFESSOR

White

### FACULTY ASSOCIATE

Halbach

## ENTOMOLOGY

Insects have dominated the terrestrial planet for more than 350 million years. While entomologists have recognized and named more than one million different species of insects, experts vary widely on the true number of insects species—with estimates ranging as widely as from 3 to 30 million unique species. At any given moment, 200+ million insects live for every human on Earth; over 70 percent of all animal species are insects. They have achieved something that has eluded humans—sustainable development. Insects are the primary consumers of plants, yet they are also the dominant pollinators, thus ensuring plant reproduction. They play a critical role in disease transmission yet the service they provide to ecological maintenance is unparalleled.

Entomologists conduct insect-based research in numerous areas ranging from general biology, natural history, systematics, ecology and behavior, to molecular biology, physiology and development, to medical and agricultural entomology. Emerging areas include invasive species, biodiversity, pollination ecology, forensics, global health, and genomics. Entomology is a very specific discipline, yet at the same time, an immensely broad and diverse field of study touching a wide array of other subjects. As such, entomological training provides many choices and opportunities for those interested in the diversity of nature. While some entomologists work in the field, others work in the laboratory or classroom.

Students majoring in entomology study in a variety of fundamental and applied fields. Graduates find employment in college and university teaching, research and extension work, state and federal government service, industry, and research institutes.

Students can complete an undergraduate major in entomology under the bachelor of science degree program.

Students interested in graduate work should consult the Graduate School Catalog (<http://guide.wisc.edu/graduate>).

See the department website (<http://www.entomology.wisc.edu>) for current course rotation information.

## DEGREES/MAJORS/CERTIFICATES

- Entomology, B.S. (p. 111)

## PEOPLE

### PROFESSORS

Brunet, Johanne  
Goodman, Walter  
Gratton, Claudio  
Groves, Russell

Lindroth, Richard  
 Paskewitz, Susan (chair)  
 Raffa, Kenneth  
 Williamson, R. Chris  
 Young, Daniel  
 Zhu, Jun

## ASSISTANT PROFESSORS

Guedot, Christelle  
 Schoville, Sean  
 Steffan, Shawn

## INSTRUCTIONAL STAFF

Brabant, Craig, Curator Wisconsin Insect Research Collection  
 Liesch, Patrick (PJ), Assistant Faculty Associate Insect Diagnostic Lab

## ENTOMOLOGY, B.S.

Insects have dominated the terrestrial planet for more than 350 million years. While entomologists have recognized and named more than one million different species of insects, experts vary widely on the true number of insects species—with estimates ranging as widely as from 3 to 30 million unique species. At any given moment, 200+ million insects live for every human on Earth; over 70 percent of all animal species are insects. They have achieved something that has eluded humans—sustainable development. Insects are the primary consumers of plants, yet they are also the dominant pollinators, thus ensuring plant reproduction. They play a critical role in disease transmission yet the service they provide to ecological maintenance is unparalleled.

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Students interested in graduate work should consult the Graduate School Catalog (<http://guide.wisc.edu/graduate>).

See the department website (<http://www.entomology.wisc.edu>) for current course rotation information.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information

about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics</b>		
Select one of the following (or placement exam):		5-6
	MATH 112 Algebra & MATH 113 and Trigonometry	
	MATH 114 Algebra and Trigonometry	
	MATH 171 Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		5
	MATH 211 Calculus	
	MATH 217 Calculus with Algebra and Trigonometry II	
	MATH 221 Calculus and Analytic Geometry 1	
	STAT 371 Introductory Applied Statistics for the Life Sciences	

<b>Chemistry</b>		
Select one of the following:		5-9
	CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	

### Biology

#### Option 1:

	BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology
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#### Option 2:

	ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany
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#### Option 3:

	BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory
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Select 12 additional credits from any biological or physical science course (at least 8 credits must be 300-level or 200-level courses with the intermediate-level designation). <sup>2</sup>

### Physics

Select one of the following:		3-5
	PHYSICS 103 General Physics	
	PHYSICS 107 The Ideas of Modern Physics	
	PHYSICS 109 Physics in the Arts	
	PHYSICS 115 Energy	
	PHYSICS 201 General Physics	
	PHYSICS 207 General Physics	

### Entomology Core

	ENTOM/ZOOLOGY 302	Introduction to Entomology	4
Select 11 credits as follows:			11

Must select at least 3 credits from at least two subsets (organismal, suborganismal, or applied)

May select up to 3 credits from subset called "other"

### Capstone

	ENTOM 468	Studies in Field Entomology <sup>3</sup>	3
Total Credits			36-43

<sup>1</sup> If MATH 171 is taken, student must take MATH 217.

<sup>2</sup> Suggested courses/subjects include GENETICS 466, CHEM 341, CHEM 342 CHEM 343, CHEM 344, CHEM 345, PHYSICS 104, PHYSICS 202, PHYSICS 208, ENTOM not used elsewhere, BOTANY, ZOOLOGY, F&W ECOL, MICRO, PL PATH.

<sup>3</sup> ENTOM 468, taken after the junior year, is the recommended capstone course (can double count in Core Courses). ENTOM 681 Senior Honors Thesis, ENTOM 682 Senior Honors Thesis, ENTOM 691 Senior Thesis, ENTOM 699 Special Problems can be substituted in special circumstances (and can double count up to 3 credits in Core Category); see advisor.

## SUBSET COURSES

### ORGANISMAL

Code	Title	Credits
ENTOM 331	Taxonomy of Mature Insects	4
ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
ENTOM 450	Basic and Applied Insect Ecology <sup>1</sup>	3



ENTOM 451	Basic and Applied Insect Ecology Laboratory (requires enrollment in ENTOM 450) <sup>1</sup>	1
ENTOM 468	Studies in Field Entomology	3
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
The following three courses:		3
ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	
ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	
ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	
ENTOM 701	Advanced Taxonomy	3

<sup>1</sup> ENTOM 450 Basic and Applied Insect Ecology and ENTOM 451 Basic and Applied Insect Ecology Laboratory can count toward either the organismal or applied categories, not both

## SUBORGANISMAL

Code	Title	Credits
ENTOM 321	Physiology of Insects	3
ENTOM/BOTANY/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3

## APPLIED

Code	Title	Credits
ENTOM/M M & I/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology	3
ENTOM 450	Basic and Applied Insect Ecology <sup>1</sup>	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory <sup>1</sup>	1
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2

<sup>1</sup> ENTOM 450 Basic and Applied Insect Ecology and ENTOM 451 Basic and Applied Insect Ecology Laboratory can count toward either the organismal or applied categories, not both

## OTHER

Code	Title	Credits
ENTOM 375	Special Topics	1-4
ENTOM 399	Coordinative Internship/Cooperative Education	1-8
ENTOM 681	Senior Honors Thesis	2-4

ENTOM 682	Senior Honors Thesis	2-4
ENTOM 691	Senior Thesis	2
ENTOM 699	Special Problems	1-4

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Define and explain major concepts in the biological sciences focusing on insects.
2. Knowledge of laboratory and/or field methodology.
3. Explain and apply scientific methods including designing and conducting experiments and testing hypotheses.
4. Recognize relationships between structure and function at all levels including molecular, cellular, organismal and ecological.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form.
6. Integrate math, physics, and technology to answer biological questions using the scientific method.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE ENTOMOLOGY FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
MATH 112, 113, 114, or 171	3-5 MATH 113, 211, 217, or 221	3-5
COMM A or Elective	3 Electives (to reach ~15 credits)	5-8
First Year Seminar	1	

Additional Elective Course <sup>1</sup>	3	
	14-17	13-18

Total Credits 27-35

**Sophomore**

Fall	Credits Spring	Credits
MATH 211, 217, 221, or STAT 371	3-5 ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
ZOOLOGY/BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 (or ZOOLOGY 151)	5 Electives	10
Electives	4-6	
	12-16	15

Total Credits 27-31

**Junior**

Fall	Credits Spring	Credits
ENTOM/ZOOLOGY 302	4 Biological or Physical Elective	3
PHYSICS 103, 107, 109, 115, 201, or 207	4-5 Breadth Course in Core	3
Electives (to reach ~ 15 credits)	4-8 Electives (to reach ~15 credits)	6-9
	12-17	12-15

Total Credits 24-32

**Junior**

Summer	Credits
ENTOM 468 (Capstone, even #'d summers)	3
	3

Total Credits 3

**Senior**

Fall	Credits Spring	Credits
Biological or Physical Elective Course	3 Biological or Physical Elective	6
Breadth Course(s) in Core	3-6 Breadth Course in Core	3
Electives (to reach ~15 credits)	6-9 Electives	6
	12-18	15

Total Credits 27-33

<sup>1</sup> When choosing electives, students should first consider UW and CALS requirements (ethnic studies, humanities, social science, international studies, etc.)

For additional Biological or Physical Science courses students may want to choose from the following depending on interest

\* Health/graduate school: CHEM 343/CHEM 344/CHEM 345, PHYSICS 104 or PHYSICS 207, GENETICS 466, MICROBIO 303/MICROBIO 304, BIOCHEM 501

\* Ecology: F&W ECOL/ENVIR ST/ZOOLOGY 360, BOTANY/F&W ECOL/ZOOLOGY 460 General Ecology, F&W ECOL 550 Forest Ecology, ZOOLOGY/ANTHRO/BOTANY 410, BOTANY 400 or BOTANY 401

\* Agriculture: PL PATH 300, AGRONOMY 300, SOIL SCI 301

Students may reduce the number of required courses via:

- Testing out of Comm-A
- Using ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology to satisfy Comm-B
- Testing out of Quantitative Reasoning, Part A
- Earning AP/IB credits
- Using ENTOM/ZOOLOGY 371 Medical Entomology for International Course

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING IN ENTOMOLOGY

Undergraduate students are assigned to two advisors, the Entomology undergraduate faculty advisor Dr. Dan Young (<http://labs.russell.wisc.edu/ento/people/faculty/young>) and Sara Rodock ([rodock@wisc.edu](mailto:rodock@wisc.edu) (p. 114); appointment scheduling link (<http://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)). However, since the vast majority of entomology B.S. students do independent research during their undergraduate career, it is important to meet with other entomology faculty members (<http://labs.russell.wisc.edu/ento/people/faculty>) to learn about all of the research possibilities.

Undergraduates in entomology are strongly urged to meet with their advisor before they enroll for the upcoming term.

For more information about the entomology B.S. or the department in general, please contact Dr. Dan Young or the Student Services Coordinator, Sara Rodock ([rodock@wisc.edu](mailto:rodock@wisc.edu) or 608-262-9926).

### CAREERS AND PROFESSIONAL DEVELOPMENT

For more information on careers available to entomology students, please visit our Internship & Job Resources (<http://labs.russell.wisc.edu/ento/graduate-study/internships-and-job-resources>) page. For more information on other academic, co-curricular, financial aid, and career opportunities and services available to entomology B.S. students, please visit the CALS "Building Your Career" (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-development>) page. Students in the major are welcome to make an individual appointment with Sara Rodock ([rodock@wisc.edu](mailto:rodock@wisc.edu); appointment link for current UW–Madison students (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)) to discuss a number of career related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

## PEOPLE

### PROFESSORS

Brunet, Johanne  
Goodman, Walter  
Gratton, Claudio  
Groves, Russell

Lindroth, Richard  
 Paskewitz, Susan (chair)  
 Raffa, Kenneth  
 Williamson, R. Chris  
 Young, Daniel  
 Zhu, Jun

## ASSISTANT PROFESSORS

Guedot, Christelle  
 Schoville, Sean  
 Steffan, Shawn

## INSTRUCTIONAL STAFF

Brabant, Craig, Curator Wisconsin Insect Research Collection  
 Liesch, Patrick (PJ), Assistant Faculty Associate Insect Diagnostic Lab

## WISCONSIN EXPERIENCE

While entomology clearly is “big science,” our department prides itself on a “small campus” feel in which we get to know our undergraduate students during their time with us.

In the classroom, we strive to maintain labs at not more than 15-20 students to maximize individualized and participatory learning. Students are given additional opportunities for deep and engaged learning experiences through honors options that are generally available for most courses and field and/or lab experiences in many of the upper-level courses.

Very nearly all our majors have opportunities to work alongside our faculty and graduate students in research labs and in the field. Our major accommodates 1–3 credits (of the 15 entomology credits required to major) in the area of directed/independent study and internships to promote extracurricular and outside the traditional classroom learning.

Many of our undergraduate majors are also involved in service learning and teaching through our departmental “Insect Ambassadors (<http://labs.russell.wisc.edu/insectambassadors>)” outreach program to K/12, various clubs, and organizations. We are committed (<http://labs.russell.wisc.edu/ento/outreach>) to the UW System goal to provide Wisconsin’s citizens with opportunities to benefit from, and contribute to, the state’s growing “knowledge economy” through the land-grant university three-fold mission of teaching, research and public service. We also have an active Undergraduate Entomology Society for majors—or any UW–Madison students interested in entomology. Research and internship opportunities are also available in the UW Insect Research Collection (WIRC) (<http://labs.russell.wisc.edu/wirc>) as well as possible participation in WIRC sponsored collecting expeditions in Wisconsin and around the United States.

## FOOD SCIENCE

Food science is the application of science and engineering to the production, processing, distribution, preparation, and evaluation of food.

The Department of Food Science at the University of Wisconsin–Madison has been a part of the College of Agricultural and Life Sciences for more than 100 years instructing generations of food science and industry leaders. Housed in the recently remodeled Babcock Hall, the Department of Food Science offers students a truly unique undergraduate and graduate experience. Known for our distinguished and dedicated faculty

and staff, students find the Department of Food Science a stimulating and encouraging environment to study and conduct research.

The Department of Food Science’s undergraduate program offers students valuable real-world experience and leadership skills by providing an innovative curriculum; varied club and extracurricular activities; research lab opportunities; access to a fully functional and award winning dairy plant; professional and industry contacts and experience; numerous internships and scholarships, and nearly 100% job placement.

Students find career opportunities in product development, quality assurance/control, processing and engineering, technical sales, management, research, sensory analysis, and food law and regulations.

## DEGREES/MAJORS/CERTIFICATES

- Food Science, B.S. (p. 115)

## PEOPLE

### PROFESSORS

Damodaran, Etzel, Hartel, Ingham, Lucey, Parkin, Rankin (chair), Steele

### ASSISTANT PROFESSORS

Bolling, Ikeda, vanPijkeren

## FOOD SCIENCE, B.S.

Food science is the application of science and engineering to the production, processing, distribution, preparation, and evaluation of food.

The Department of Food Science at the University of Wisconsin–Madison has been a part of the College of Agricultural and Life Sciences for more than 100 years, instructing generations of food science and industry leaders. Housed in the recently remodeled Babcock Hall, the Department of Food Science offers students a truly unique undergraduate experience. Known for our distinguished and dedicated faculty and staff, students find the Department of Food Science a stimulating and encouraging environment to study and conduct research.

The Department of Food Science’s undergraduate program offers students valuable real-world experience and leadership skills by providing an innovative curriculum; varied club and extracurricular activities; research lab opportunities; access to a fully functional and award winning dairy plant; professional and industry contacts and experience; numerous internships and scholarships, and nearly 100% job placement.

Students find career opportunities in product development, quality assurance/control, processing and engineering, technical sales, management, research, sensory analysis, and food law and regulations.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 30).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option

to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed under the Advising and Careers tab.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

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

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

First Year Seminar (p. 33)		1
International Studies (p. 33)		3
Physical Science Fundamentals		4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

NUTR SCI/A A E/AGRONOMY/INTER-AG 350 World Hunger and Malnutrition is recommended to fulfill the CALS International Studies requirement.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.		
Select one of the following:		5
MATH 217	Calculus with Algebra and Trigonometry II <sup>1</sup>	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
<b>Physics</b>		
Select one of the following:		4-5
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
<b>Biology</b>		
Select one of the following (see below):		16-18
Biochem/Botany/Microbio/Zoology (Path 1)		
Biocore (Path 2)		
<b>Foundation</b>		
<i>Econ or Ag &amp; Applied Econ</i>		
Select one of the following:		3

A A E 215	Introduction to Agricultural and Applied Economics	
A A E 323	Cooperatives	
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	

**Nutritional Science**

NUTR SCI/ BIOCHEM 510 or NUTR SCI 332	Biochemical Principles of Human and Animal Nutrition Human Nutritional Needs	3
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**Core**

FOOD SCI 301	Introduction to the Science and Technology of Food	3
AN SCI/FOOD SCI 321	Food Laws and Regulations	1
FOOD SCI/MICROBIO 324	Food Microbiology Laboratory	2
FOOD SCI/MICROBIO 325	Food Microbiology	3
FOOD SCI 410	Food Chemistry	3
FOOD SCI 412	Food Analysis	4
FOOD SCI 432	Principles of Food Preservation	3
FOOD SCI 440	Principles of Food Engineering	3
FOOD SCI 514	Integrated Food Functionality	4
FOOD SCI 532	Integrated Food Manufacturing	4

**Integrated Food Product Elective**

Select one of the following (2 credits minimum): 2

FOOD SCI 511	Chemistry and Technology of Dairy Products	
FOOD SCI/ AN SCI 515	Commercial Meat Processing	
FOOD SCI 535	Confectionery Science and Technology	
FOOD SCI 550 & FOOD SCI 551 2	Fermented Foods and Beverages and Food Fermentation Laboratory	

**Science Elective**

Any 400-level or above course with Physical Science designation 3

**Capstone**

FOOD SCI 602	Senior Project	2
FOOD SCI 603	Senior Seminar	1

Total Credits 85-92

<sup>1</sup> MATH 217 Calculus with Algebra and Trigonometry II requires MATH 171 Calculus with Algebra and Trigonometry I as a prerequisite.

<sup>2</sup> Both FOOD SCI 550 and either FOOD SCI 551 or FOOD SCI 375 The Science of Wine must be taken.

**BIOLOGY PATHS****BIOCHEM/BOTANY/MICROBIO/ZOOLOGY (PATH 1)**

Code	Title	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5

Select one of the following: 3-5

Any 400-level or above course with Biological Science designation

BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
MICROBIO 101 or MICROBIO 303	General Microbiology Biology of Microorganisms	3
MICROBIO 102 or MICROBIO 304	General Microbiology Laboratory Biology of Microorganisms Laboratory	2
BIOCHEM 501	Introduction to Biochemistry	3

Total Credits 16-18

**BIOCORE (PATH 2)**

Code	Title	Credits
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Organismal Biology	3
BIOCORE 587	Biological Interactions	3

Select two of the following: 4

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	

Total Credits 16

**HONORS IN THE MAJOR**

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take FOOD SCI 681 Senior Honors Thesis and FOOD SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

## LEARNING OUTCOMES

1. Graduates recognize the necessity of continued learning. Graduates will:
  - a. Understand that information, knowledge, and technology are always evolving.
  - b. Develop a sense of what they know and don't know (as individuals).
  - c. Be receptive to change in technical and professional settings.
2. Graduates are effective communicators. Graduates will:
  - a. Write clear and concise technical reports and research articles.
  - b. Read for content and quality of literature in the field.
  - c. Deliver clear and concise technical presentations.
  - d. Communicate clearly scientific principles and data to lay audiences.
  - e. Listen intelligently and accept constructive criticisms.
  - f. Respect alternative options.
3. Graduates have basic employability skills. Graduates will:
  - a. Understand the importance of responsibility, dependability, punctuality, appropriate behavior, and effort in the work place.
  - b. Demonstrate the ability to work independently, as well as the ability to work cooperatively in teams.
  - c. Recognize changes as part of growth.
  - d. Recognize, accept, and respect ethnic and cultural diversity and individual difference.
  - e. Commit to the highest standards of professional integrity and ethical value.
4. Graduate have strong quantitative problem solving and critical thinking skills. Graduates will:
  - a. Develop ability to deftly apply the scientific method to food science problems: (1) scientific curiosity and observation to detect a problems; (2) define the problem statement; (3) search, explore, and gather evidence; (4) design and implement an experiment to challenge the hypothesis; (7) observe and analyze the results; and (8) reach a conclusion pertinent to the problem statement.
  - b. Develop ability to apply quantitative reasoning skills to food science data: (1) recognize and construct a mathematical model that represents quantitative information; (2) analyze and manipulate these models; draw conclusions, predictions, or inferences on the basis of the analysis; and (4) assess the reasonableness of these conclusions.
  - c. Develop ability to rigorously apply principles from general chemistry, physics, statistics, and mathematics to food science problems.
  - d. Be comfortable with ambiguity in scientific and technical fields.
  - e. Develop ability to critically examine technical literature and apply it in the workplace.
5. Graduates are competent in the key aspects of the multidisciplinary nature of food science.
  - a. Goals of the program are to have graduates that are competent in the following areas:
    - i Understand the physical, chemical and biological reactions that are important in maintaining food quality and safety, and how to evaluate these changes (analysis).
    - ii Understand the physical, chemical and biological processes involved in conversion of raw materials into finished food products and how to evaluate those changes.
    - iii Understand the relationship between food and health/wellness.
    - iv Knowledge in the laws and regulations which govern our food supply.
  - b. Graduate should be competent in the following core knowledge areas:
    - i Food chemistry and analysis:
      - understand reactions in foods and its components.
      - compositions of key foods/products.
      - knowledge of analysis methods.
    - ii Food safety and microbiology:
      - knowledge of food pathogens.
      - microbiological aspects to making safe foods.
      - food preservation methods.
    - iii Food processing and engineering:
      - processing and engineering principles related to foods and their manufacture/design.
    - iv Food nutrition and health:
      - understand the relationships between foods and health/wellness.
    - v Applied food science:
      - integration of disciplines in relation to food problems or processes.
      - knowledge of relevant laws and regulations for the food industry.
      - current issues/trends in the food industry.
    - vi Technical and analytical skills:
      - able to apply food science and other disciplines to understand real world food industry problems.
      - to be able to critically evaluate reports/information relating to food quantitative (mathematical and statistical) analytical skills.

*In addition to these departmental program learning outcomes, IFT requires documentation of how students meet a standardized set of Core Competencies.*

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE FOOD SCIENCE FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109 <sup>1</sup>	4-5 CHEM 104 <sup>1</sup>	5
MATH 221 <sup>2</sup>	5 BIOLOGY/BOTANY/ ZOOLOGY 151	5

General Education course <sup>3</sup>	0-3 General Education Course <sup>3</sup>	0-3
COMM A Course	3 FOOD SCI 201 (recommended)	1
First Year Seminar	1	
	13-17	11-14

Total Credits 24-31

**Sophomore**

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344 & CHEM 345	5
FOOD SCI 301	3 STAT 371 or 301	3
MICROBIO 101 & MICROBIO 102	5 PHYSICS 207	5
FOOD SCI 375 (The Practicing Professional: Pathway to Leadership (recommended))	1 General Education Course <sup>4</sup>	0-3
General Education Course <sup>3</sup>	3	
	15	13-16

Total Credits 28-31

**Junior**

Fall	Credits Spring	Credits
BIOCHEM 501	3 NUTR SCI 332 or 510	3
FOOD SCI 440	3 FOOD SCI/AN SCI 321	1
FOOD SCI 410	3 FOOD SCI 432	3
MICROBIO/FOOD SCI 324 & MICROBIO/FOOD SCI 325	5 FOOD SCI 412	4
General Education Courses <sup>3</sup>	0-6 Food Science course <sup>4,5</sup>	0-2
	General Education Course <sup>3</sup>	0-6
	14-20	11-19

Total Credits 25-39

**Senior**

Fall	Credits Spring	Credits
FOOD SCI 532	4 FOOD SCI 514	4
FOOD SCI 602	2 FOOD SCI 603 <sup>6</sup>	1
Food Science Course <sup>4</sup>	0-3 Food Science Course <sup>4</sup>	0-3
Science Elective Course <sup>5</sup>	0-3 Science Elective Course <sup>5</sup>	0-3
General Education Courses <sup>3</sup>	3-6 General Education Courses <sup>3</sup>	3-6
	9-18	8-17

Total Credits 17-35

<sup>1</sup> Students taking CHEM 109 do not take CHEM 104.<sup>2</sup> MATH 221 will satisfy the Quantitative Reasoning B requirement.<sup>3</sup> Electives can be found on the Requirements tab.<sup>4</sup> Students must select at least one course from FOOD SCI 511 Chemistry and Technology of Dairy Products (spring semester), FOOD SCI/AN SCI 515 Commercial Meat Processing (fall semester), FOOD SCI 535 Confectionery Science and Technology (fall semester), or FOOD SCI 550 Fermented Foods and Beverages (spring semester) and either FOOD SCI 551 Food Fermentation Laboratory (spring semester) or FOOD SCI 375 Special Topics (fall semester).<sup>5</sup> Students must complete two science elective courses: (1) at least 3 credits of any 400-level or above biological science course or BIOLOGY/BOTANY/ZOOLOGY 152 Introductory Biology (2) at least 3 credits of any 400-level or above physical science course.<sup>6</sup> Combination of FOOD SCI 602 Senior Project and FOOD SCI 603 Senior Seminar satisfy Comm B requirement.**Note: Students must complete a minimum of 120 credits. This may require taking 16 credits per semester for at least four semesters.**

## ADVISING AND CAREERS

Students are assigned a faculty or staff advisor once they declare the major. Advisors are prepared to help with curricular planning and course access; major and degree questions; discussion of independent study and lab research experience; and navigating internship and scholarship opportunities. Declared food science majors must meet with their assigned advisor prior to registration. Additional information can be found on the department's website (<https://foodsci.wisc.edu/advising.php>).

Prospective food science majors should contact the Department of Food Science at [foodsci@wisc.edu](mailto:foodsci@wisc.edu) or 608-262-3046 for more information.

## PEOPLE

### PROFESSORS

Damodaran, Etzel, Hartel, Ingham, Lucey, Parkin, Rankin (chair), Steele

### ASSISTANT PROFESSORS

Bolling, Ikeda, vanPijkeren

## FOREST AND WILDLIFE ECOLOGY

The Department of Forest and Wildlife Ecology provides science-based teaching that prepares future natural resource professionals to sustainably manage and conserve forests and wildlife. Building on the rich traditions of Aldo Leopold (the Department's first chair), we offer students an interdisciplinary environment to learn about the natural world, apply science to management toward sustainable ecological systems, and understand complex human-environment relationships. We offer two undergraduate majors—forest science and wildlife ecology—that provide opportunities for employment in the public, private, and non-governmental sectors. Students can also gain a strong foundation for graduate training in forestry, wildlife, ecology, and related fields. The forest science program is accredited by the Society of American Foresters. The wildlife ecology major provides a path to becoming a certified wildlife biologist. Both degrees provide a mix of field, lab, and classroom experiences.

The department also offers graduate programs at the M.S. and Ph.D. levels. See the Graduate Guide (<http://guide.wisc.edu/graduate>) for additional information.

## DEGREES/MAJORS/CERTIFICATES

- Forest Science, B.S. (p. 120)
- Wildlife Ecology, B.S. (p. 127)

## PEOPLE

### PROFESSORS

Bowe, Scott  
 Drake, David  
 Karasov, William  
 Kruger, Eric  
 Mladenoff, David  
 Radeloff, Volker  
 Ribic, Christine  
 Rickenbach, Mark (chair)  
 Samuel, Michael  
 Stanosz, Glen  
 Townsend, Philip  
 Van Deelen, Timothy

### ASSOCIATE PROFESSORS

Lutz, R. Scott  
 Ozdogan, Mutlu  
 Pauli, Jonathan  
 Peery, M. Zach  
 Pidgeon, Anna  
 Rissman, Adena

### ASSISTANT PROFESSORS

Johnston, Craig  
 Zuckerberg, Benjamin

### FACULTY ASSOCIATE

Berkelman, James

## FOREST SCIENCE, B.S.

Forest ecosystems cover one third of the world's land area and nearly half of Wisconsin. They provide a range of benefits to society including wood and fiber, wildlife habitat, biological diversity, clean water, carbon storage, recreation, beauty, and cultural values. The Department of Forest and Wildlife Ecology trains foresters to sustainably manage forests toward sustainable ecological, social, and economic outcomes. Forest science students also learn how to respond to forest disturbances from insects, diseases, fire, and other changes. Beyond a core of basic science and forestry coursework, students have flexibility to customize their learning experience within one of three tracks: forest conservation, forests and the environment, and forest management. All three tracks meet accreditation standards of the Society of American Foresters, a key credential that employers seek. Students are also well positioned to pursue graduate training in forestry, ecology, remote-sensing, natural resource policy, and related fields.

Students learn through a mix of classroom, laboratory, and field instruction that emphasizes independent thinking and problem-solving. Students make frequent visits to forests to develop and hone their skills, essential for future job opportunities. Students also engage professional and student-led trainings and networking that further build skills. Graduates go on to jobs in private, public, and non-governmental sectors or pursue graduate degrees.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see Entering the College (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College



of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
First Year Seminar (p. 33)		1
International Studies (p. 33)		3
Physical Science Fundamentals		4-5
CHEM 103 or CHEM 108 or CHEM 109	General Chemistry I Chemistry in Our World Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences (recommended)	
<b>Chemistry</b>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10
Option 1 (recommended introduction to biology sequence):		

BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory
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Option 2:

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology
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Option 3:

BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory
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### Economics

A A E 215 or ECON 101	Introduction to Agricultural and Applied Economics <sup>1</sup> Principles of Microeconomics	3-4
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### Conservation

Select one of the following:<sup>2</sup> 2-4

ENVIR ST/ LAND ARC 361	Wetlands Ecology
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species (recommended) <sup>3</sup>
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology (recommended)
GEOG/ ENVIR ST 339	Environmental Conservation

### Core

Grade of C or better required in each core course		
SOIL SCI 301	General Soil Science	4
F&W ECOL 300	Forest Biometry	4
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	3-4
or F&W ECOL/ ENVIR ST/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 399	Coordinative Internship/Cooperative Education	1-8
BOTANY/F&W ECOL 402	Dendrology	2

F&W ECOL 410 & F&W ECOL 411	Principles of Silviculture and Practices of Silviculture	4
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ ENTOM 500	Insects in Forest Ecosystem Function and Management	2
F&W ECOL 501	Forest Fire Behavior and Management	1
ENVIR ST/F&W ECOL 515	Natural Resources Policy	3
F&W ECOL 550 & F&W ECOL 551	Forest Ecology and Forest Ecology Lab	4
A A E/ENVIR ST/F&W ECOL 652	Decision Methods for Natural Resource Managers	4
F&W ECOL 658	Forest Resources Practicum	3
<b>Electives</b>		
Select one of the following tracks:		12
Forest Management Track		
Forest Conservation Track		
Forests & Environment Track		
<b>Capstone</b>		
Grade of C or better required in Capstone		
F&W ECOL 590	Integrated Resource Management	3
Total Credits		83-96

<sup>1</sup> A A E 215 only carries QR-B credit if taken fall 2011 or later.

<sup>2</sup> These courses may double count as track electives.

<sup>3</sup> F&W ECOL/ENVIR ST/ZOOLOGY 360 Extinction of Species may also fulfill CALS International Studies requirement.

## MINIMUM GRADE REQUIREMENT

Students who declare the major in fall 2012 or later will be required to receive a grade of C or higher on all of the Forest Science Core courses and the Capstone. Students who receive a grade of D or below will be required to retake the course for graduation.

## TRACKS

### FOREST MANAGEMENT TRACK

Code	Title	Credits
Select 12 credits from any of the following courses:		12
<i>Soils and Landscapes:</i>		
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
GEOG 329	Landforms and Landscapes of North America	
SOIL SCI 325	Soils and Landscapes	
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	
<i>Economics and Business:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E/ECON/ ENVIR ST 343	Environmental Economics	
A A E 419	Agricultural Finance	

GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
INTL BUS 200	International Business	
LSC 270	Communication in Life Science Industries	
M H R 300	Managing Organizations	
M H R 305	Human Resource Management	
M H R 401	The Management of Teams	
OTM 300	Operations Management	
<i>Urban and Wildland Forest Management:</i>		
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
F&W ECOL 375	Special Topics (Tree Stability Analysis)	
HORT/ LAND ARC 263	Landscape Plants I	
HORT/ AGRONOMY/ SOIL SCI 326	Plant Nutrition Management	
HORT 375	Special Topics (Aboriculture)	
<i>GIS/Remote Sensing:</i>		
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Fieldcraft & Field Methods for Environmental Researchers)	
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	
ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	
GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 378	Introduction to Geocomputing	
<i>Wildlife and Fisheries Ecology:</i>		
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
F&W ECOL 318	Principles of Wildlife Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)	
F&W ECOL 379	Principles of Wildlife Management	
F&W ECOL 404	Wildlife Damage Management	
F&W ECOL 655	Animal Population Dynamics	
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	

ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology	
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin	
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology	
<b>Total Credits</b>		<b>12</b>

## FOREST CONSERVATION TRACK

Code	Title	Credits
Select 3 credits from each of the following areas:		
<i>Plant Ecology and Diversity:</i>		<b>3</b>
BOTANY/ PL PATH 332	Fungi	
BOTANY 401	Vascular Flora of Wisconsin	
BOTANY 422	Plant Geography	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
F&W ECOL 635	Forest Stand Dynamics	
GEOG/ BOTANY 338	Environmental Biogeography	
<i>Animal Ecology and Diversity:</i>		<b>3</b>
ENTOM/ ZOOLOGY 302	Introduction to Entomology	
ENTOM 342	Insect Ecology	
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)	
F&W ECOL 655	Animal Population Dynamics	
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology	
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin	
<i>Conservation Biology:</i>		<b>3</b>

ENVIR ST/ LAND ARC 361	Wetlands Ecology	
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology	
GEOG/ ENVIR ST 339	Environmental Conservation	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
<i>Natural Resources Management and Policy:</i>		<b>3</b>
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E/ECON/ ENVIR ST 343	Environmental Economics	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	
F&W ECOL 379	Principles of Wildlife Management	
F&W ECOL 450	Communities and Forests	
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	
F&W ECOL 561	Wildlife Management Techniques	
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
LAND ARC 666	Restoration Ecology	
<b>Total Credits</b>		<b>12</b>

## FORESTS & ENVIRONMENT TRACK

Code	Title	Credits
Select 12 credits from any of the following courses:		
<i>Earth and Atmospheric Science:</i>		
ATM OCN 100	Weather and Climate	
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	
ATM OCN/ ENVIR ST/ GEOG 332	Global Warming: Science and Impacts	

ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
GEOG 329	Landforms and Landscapes of North America
GEOG 342	Geography of Wisconsin
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ PL PATH 323	Soil Biology
SOIL SCI 325	Soils and Landscapes
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
<i>Plant and Animal Ecology:</i>	
BOTANY/ PL PATH 332	Fungi
BOTANY 401	Vascular Flora of Wisconsin
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 342	Insect Ecology
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions
ENVIR ST/ LAND ARC 361	Wetlands Ecology
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 318	Principles of Wildlife Ecology
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL 635	Forest Stand Dynamics
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology
F&W ECOL 655	Animal Population Dynamics
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab

ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin
<i>Natural Resources Management:</i>	
ENVIR ST/ BSE 367	Renewable Energy Systems
ENVIR ST/ GEOSCI 411	Energy Resources
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
F&W ECOL 379	Principles of Wildlife Management
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
PL PATH 300	Introduction to Plant Pathology
LAND ARC 666	Restoration Ecology
<i>Human Dimensions of Resources:</i>	
A A E/ ENVIR ST 244	The Environment and the Global Economy
A A E/ECON/ ENVIR ST 343	Environmental Economics
A A E/ECON/ F&W ECOL 531	Natural Resource Economics
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ HIST SCI 353	History of Ecology
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation
ENVIR ST/ PHILOS 441	Environmental Ethics
ENVIR ST/GEOG/ HISTORY 460	American Environmental History
F&W ECOL 450	Communities and Forests
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History
GEOG/ ENVIR ST 339	Environmental Conservation

Total Credits

12

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take F&W ECOL 681 Senior Honors Thesis and F&W ECOL 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist

(<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### Competencies in Ecology:

1. Understanding of taxonomy and ability to identify forest and other tree species, their distribution, and associated vegetation and wildlife.
2. Understanding of soil properties and processes, hydrology, water quality, and watershed functions.
3. Understanding of ecological concepts and principles including the structure and function of ecosystems, plant and animal communities, competition, diversity, population dynamics, succession, disturbance, and nutrient cycling.
4. Ability to make ecosystem, forest, and stand assessments.
5. Understanding of tree physiology and the effects of climate, fire, pollutants, moisture, nutrients, genetics, insects and diseases on tree and forest health and productivity.

### Competencies in Forest Resources Measurement and Management:

1. Ability to identify and measure land areas and conduct spatial analysis.
2. Ability to design and implement comprehensive inventories that meet specific objectives using appropriate sampling methods and units of measurement.
3. Ability to analyze inventory data and project future forest, stand, and tree conditions.
4. Ability to develop and apply silvicultural prescriptions appropriate to management objectives, including methods of establishing and influencing the composition, growth, and quality of forests, and understand the impacts of those prescriptions.
5. Ability to analyze the economic, environmental, and social consequences of forest resource management strategies and decisions.

6. Ability to develop management plans with specific multiple objectives and constraints.
7. Understanding of the valuation procedures, market forces, processing systems, transportation and harvesting activities that translate human demands for timber-based and other consumable forest products into the availability of those products.
8. Understanding of the valuation procedures, market, and non-market forces that avail humans the opportunities to enjoy non-consumptive products and services of forests.
9. Understanding of the administration, ownership, and organization of forest management enterprises.

### Competencies in Forest Resource Policy, Economics, and Administration:

1. Understanding of forest policy and the processes by which it is developed.
2. Understanding of how federal, state, and local laws and regulations govern the practice of forestry.
3. Ability to understand the integration of technical, financial, human resources, and legal aspects of public and private enterprises.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE FOREST SCIENCE FOUR-YEAR PLAN

#### Freshman

Fall	Credits Spring	Credits
F&W ECOL 100	2 MATH 113 or 114	3
Economics Course	3-4 CHEM 103, 108, or 109	4-5
MATH 112, 113, or 114	3 BOTANY/BIOLOGY 130 <sup>2</sup>	5
COMM A Course	3 Electives (to reach ~15 credits)	0-4
INTER-AG 155 (1st Yr Seminar)	1	
Electives (to reach ~15 credits) <sup>1</sup>	0-3	
12-16		12-17

Total Credits 24-33

#### Sophomore

Fall	Credits Spring	Credits
ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102	5 F&W ECOL 300	4
SOIL SCI 301	4 GEOG/CIV ENGR/ ENVIR ST 377	4
F&W ECOL/BOTANY 402	2 Statistics Courses	9
F&W ECOL 415	3	
14		17

Total Credits 31

**Sophomore**

Spring	Credits
F&W ECOL 658 (even #d summers)	3
	3
Total Credits 3	

**Junior**

Fall	Credits Spring	Credits
F&W ECOL 550	3 F&W ECOL 410	3
F&W ECOL/ENTOM 500 (odd falls only)	2 F&W ECOL 501 (odd springs only)	1
Track Course	3 Track Course	3
Elective Courses	4 Elective Courses	6
	12	13
Total Credits 25		

**Junior**

Summer	Credits
F&W ECOL 399 <sup>4</sup>	1
	1
Total Credits 1	

**Senior**

Fall	Credits Spring	Credits
F&W ECOL 590 (Capstone)	3 F&W ECOL/A A E/ ENVIR ST 652	4
F&W ECOL/HORT/ LAND ARC/PL PATH 309	3 F&W ECOL/ ENVIR ST 515	3
Conservation Course (or spring)	2-4 Track Course	3
Track Course	3 Electives	6
Electives (to reach ~15 credits)	3	
	14-16	16
Total Credits 30-32		

<sup>1</sup> When choosing electives, students should first consider UW and CALS requirements (ethnic studies, humanities, social science, international studies, etc.)

<sup>2</sup> BOTANY/BIOLOGY 130 + ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102 are strongly recommended to satisfy the introductory biology requirement for forest science, but students may use ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102.

<sup>3</sup> F&W ECOL/ENVIR ST/G L E/GEOG/GEOSCI/LAND ARC 371 is available in fall semesters only.

<sup>4</sup> Summer (following second or third year): F&W ECOL 658 (3 cr., even-numbered summers) and F&W ECOL 399 (1 cr.)—4 cr. total.

Students may reduce the number of required courses via: testing out of Comm-A; using ZOOLOGY/BIOLOGY/BOTANY 152 to satisfy Comm-B; testing out of Quantitative Reasoning, Part A; earning AP/IB credits; and/or using F&W ECOL/ENVIR ST/ZOOLOGY 360 to satisfy International Studies requirement.

**ADVISING AND CAREERS****UNDERGRADUATE ADVISING IN FOREST SCIENCE**

All undergraduate students are assigned to an advisor when they declare the major. If you were not assigned an advisor, do not know who your advisor is, would like to talk to someone about switching advisors, or if your advisor is not available, please contact our Student Services Coordinator, Sara Rodock (rodock@wisc.edu, 608-262-9926 or appointment link for current UW–Madison students (<http://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)).

Undergraduates in Forest Science are required to meet with their advisor before they can enroll for the upcoming term. Please remember to bring a DARS report with you to any advising appointment. You can request a DARS through your student center in MyUW (<http://my.wisc.edu>). Although drop-ins and emergencies can be accommodated by someone in the department, the student is best served if they make an appointment with their assigned advisor.

For more information about the forest science B.S. or the department in general, please contact the student services coordinator, Sara Rodock (rodock@wisc.edu, 608-262-9926 or appointment link for current UW–Madison students (<http://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)).

**CAREERS AND PROFESSIONAL DEVELOPMENT**

For more information on careers available to forest science and wildlife ecology students, please visit our Internship & Job Resources (<http://fwe.wisc.edu/internship-job-resources>) page. For more information on other academic, co-curricular, financial aid, and career opportunities and services available to forest science B.S. students, please visit the CALS Career Services page (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices>).

The federal Bureau of Labor Statistics updated its Career Outlook: Careers in Forestry (<http://www.bls.gov/careeroutlook/2016/article/forestry-careers.htm>) page in August 2016 and it gives a great overview of the types of jobs related to forestry. This website is an excellent way to learn more about careers in forestry, upcoming trends, and related careers.

**PEOPLE****PROFESSORS**

Bowe, Scott  
 Drake, David  
 Karasov, William  
 Kruger, Eric  
 Mladenoff, David  
 Radeloff, Volker  
 Ribic, Christine  
 Rickenbach, Mark (chair)  
 Samuel, Michael  
 Stanosz, Glen  
 Townsend, Philip

Van Deelen, Timothy

## ASSOCIATE PROFESSORS

Lutz, R. Scott  
Ozdogan, Mutlu  
Pauli, Jonathan  
Peery, M. Zach  
Pidgeon, Anna  
Rissman, Adena

## ASSISTANT PROFESSORS

Johnston, Craig  
Zuckerberg, Benjamin

## FACULTY ASSOCIATE

Berkelman, James

## CERTIFICATION/LICENSURE

All tracks within the forest science major are accredited by the Society of American Foresters (<http://www.eforester.org>).

## WILDLIFE ECOLOGY, B.S.

Wildlife ecologists apply science to manage and conserve wildlife populations and their habitats. The Department of Forest and Wildlife Ecology trains wildlife ecologists and managers to meet the complex needs of wildlife in a human-dominated world. Students receive training in species ecology, physiology and habitat management, techniques of monitoring species, and conservation, through a curriculum solidly grounded in the natural sciences. Beyond a core of basic science and wildlife coursework, students have flexibility to customize their learning experience within one of two tracks: natural sciences and natural resources. The natural sciences track includes coursework that will qualify a student for certification as a wildlife biologist by The Wildlife Society.

Students learn through a mix of classroom, laboratory, and field instruction that emphasize independent thinking and problem-solving. Students make frequent visits to the field to develop and hone their skills, essential for future jobs or graduate work. There is intense competition for career openings in the wildlife field. Most opportunities are with state and federal agencies, but options also exist with private conservation groups and educational institutions. To be most competitive for limited job opportunities, students should pursue a master's degree. The Graduate Guide (<http://guide.wisc.edu/graduate>) describes the department's graduate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

have begun their undergraduate studies. For more information, contact the advisor listed under the Advising and Careers tab.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

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

Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
First Year Seminar (p. 33)		1
International Studies (p. 33)		3
Physical Science Fundamentals		4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World (only for Natural Resources track students)	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10
Option 1 (recommended):		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
Option 2:		

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
Option 3:		
BIOCORE 383 & BIOCORE 384 & BIOCORE 485 & BIOCORE 486	Cellular Biology and Cellular Biology Laboratory and Organismal Biology and Organismal Biology Laboratory	
<b>Core</b>		
<i>Wildlife Ecology</i>		
F&W ECOL 101	Orientation to Wildlife Ecology	1
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4
F&W ECOL 318	Principles of Wildlife Ecology	3
F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 561	Wildlife Management Techniques	3
F&W ECOL 655	Animal Population Dynamics	3
<i>Plant Taxonomy</i>		
BOTANY 400 or BOTANY 401	Plant Systematics Vascular Flora of Wisconsin	4
<i>Anatomy/Physiology</i>		
Select one of the following:		3-5
F&W ECOL 401	Physiological Animal Ecology (recommended)	
PHYSIOL 335	Physiology	
ZOOLOGY 430	Comparative Anatomy of Vertebrates	
ZOOLOGY 611	Comparative and Evolutionary Physiology	
<i>Evolution/Genetics</i>		
Select one of the following:		3-5
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
GENETICS 466	Principles of Genetics	
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory <sup>1</sup>	
<i>Wildlife Biology</i>		
Select one of the following:		5-6
ZOOLOGY/ AN SCI/ F&W ECOL 520 & ZOOLOGY/ AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin <sup>2</sup>	
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	
<b>Breadth</b>		
Select 3 credits from breadth courses (below)		3
<b>Track Courses</b>		



Select one of the following: 14-17

Natural Sciences Track

Natural Resources Track

### Capstone

Select one of the following (or see advisor): 3

F&W ECOL 577 Complexity and Conservation of White-tailed Deer (formerly 375, Complexity & Conservation of White-tailed Deer)

F&W ECOL 599 Wildlife Research Capstone

Total Credits 74-84

<sup>1</sup> Only allowed for students who completed the rest of the Biocore curriculum listed under Biology.

<sup>2</sup> Required for TWS certification

## BREADTH COURSES

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
ENVIR ST 375	Field Ecology Workshop	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 375	Special Topics (Conservation Genetics, Wildlife-Habitat Relationships)	1-4
F&W ECOL/ BOTANY 402	Dendrology	2
F&W ECOL 404	Wildlife Damage Management	3
F&W ECOL 424	Wildlife Ecology Summer Field Practicum (this course, taken for 2 credits, will complete the requirement)	2
F&W ECOL/ ENVIR ST 515	Natural Resources Policy	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1

F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY 535	Ecosystem Analysis	3

Courses used in this category cannot be double counted toward any other major requirement.

## TRACKS

### NATURAL SCIENCES TRACK

Code	Title	Credits
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
CHEM 104	General Chemistry II <sup>1</sup>	5
Select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Total Credits		14-15

<sup>1</sup> If CHEM 109 was taken instead of CHEM 103, CHEM 104 is not required.

### NATURAL RESOURCES TRACK

Code	Title	Credits
<b>Wildlife Resource Electives</b>		
Select two of the following:		3-7
F&W ECOL 375	Special Topics (Wildlife-Habitat Relationships)	
F&W ECOL 404	Wildlife Damage Management	
F&W ECOL 424	Wildlife Ecology Summer Field Practicum	
F&W ECOL/ ENVIR ST 515	Natural Resources Policy	
<b>Conservation Biology Electives</b>		
Select one of the following:		3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology	
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	
<b>Forest Management Electives</b>		

Select one of the following: 2-4

F&W ECOL 410	Principles of Silviculture
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History
F&W ECOL/ ENTOM 500	Insects in Forest Ecosystem Function and Management
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers
F&W ECOL 658	Forest Resources Practicum

**Natural Resources Management Electives**

Select one of the following: 2-4

C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
C&E SOC/ SOC 541	Environmental Stewardship and Social Justice
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues
F&W ECOL/A A E/ ECON 531	Natural Resource Economics
ENVIR ST/ GEOG 339	Environmental Conservation
ENVIR ST/A A E/ ECON 343	Environmental Economics
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact

Total Credits 10-18

## UNIVERSITY DEGREE REQUIREMENTS

**Requirements Detail**

<b>Total Degree</b>	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

## LEARNING OUTCOMES

1. Define and explain basic principles in biological sciences and major concepts in wildlife ecology including, population ecology, organismal biology, plant ecology/taxonomy, and genetics/evolution.
2. Explain and discuss principles of wildlife management including natural resource legislation, policy, and applications.
3. Explain and apply the scientific methods including designing and conducting experiments and testing hypotheses.
4. Explain and demonstrate techniques for collection of data in laboratory and field settings, keep accurate records, and analyze data to address hypotheses.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form. Provide opportunity to develop these communication skills.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE WILDLIFE ECOLOGY FOUR-YEAR PLAN– NATURAL SCIENCES TRACK

Freshman		
Fall	Credits Spring	Credits
F&W ECOL 101	1 F&W ECOL 379	3
F&W ECOL 318	3 MATH 113, 114, 171, 211, 217, or 221	3-5
MATH 112, 113, 114, or 171	3-5 CHEM 103 or 109	4
General Education Courses <sup>1</sup>	3-12 General Education Courses <sup>1</sup>	0-9
	10-21	10-21

Total Credits 20-42

Sophomore		
Fall	Credits Spring	Credits
MATH 211, 217, or 221	5 ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
ZOOLOGY/BIOLOGY/ BOTANY 151 (or ZOOLOGY 101 & ZOOLOGY 102)	5 Statistics Course	3-4
CHEM 104	5 BOTANY 401 <sup>2</sup>	4
	General Education Courses <sup>1</sup>	0-6
	15	12-19

Total Credits 27-34

<b>Junior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
PHYSICS 103, 201, or 207	4-5 F&W ECOL 306	4
Breadth Elective Course	3 ZOOLOGY/ANTHRO/ BOTANY 410 or GENETICS 466	3
F&W ECOL 561	3 ZOOLOGY/AN SCI/ F&W ECOL 520 & ZOOLOGY/AN SCI/ F&W ECOL 521	6
General Education Courses <sup>1</sup>	1-8 General Education Courses <sup>1</sup>	0-7
	11-19	13-20
Total Credits 24-39		

<b>Senior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
F&W ECOL 401 <sup>3</sup>	3 Capstone Course <sup>5</sup>	3
F&W ECOL/ENVIR ST/ ZOOLOGY 360 <sup>4</sup>	3 F&W ECOL 655	3
General Education Courses <sup>1</sup>	4-12 General Education Courses <sup>1</sup>	6-12
	10-18	12-18
Total Credits 22-36		

<sup>1</sup> Gen#Ed requirements include communications, ethnic studies, humanities, social science, or international studies. See Requirements tab for more details.

<sup>2</sup> BOTANY 400 offered in fall

<sup>3</sup> Or other physiology

<sup>4</sup> Recommended to fulfill the CALS International Studies requirement, also a Breadth Elective option

<sup>5</sup> F&W ECOL 577 offered in fall

Possible places where students may cut down on courses: COMM#A placement test, COMM#B taken as ZOOLOGY/BIOLOGY/ BOTANY 152, QR#A placement test, AP/IB credits (biology, social sciences, humanities, language, chemistry, physics, math, statistics)

- Students should take elective courses in place of the Gen#Ed courses once they have completed their Gen#Ed requirements

## SAMPLE WILDLIFE ECOLOGY FOUR-YEAR PLAN—NATURAL RESOURCES TRACK

<b>Freshman</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
F&W ECOL 101	1 F&W ECOL 379	3
F&W ECOL 318	3 MATH 113, 114, or 171	3-5
MATH 112, 113, 114, or 171	3-5 CHEM 103 or 109	4-5
General Education Courses <sup>1</sup>	3-12 General Education Courses <sup>1</sup>	0-9
	10-21	10-22
Total Credits 20-43		

<b>Sophomore</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
ZOOLOGY/BIOLOGY/ BOTANY 151 (or ZOOLOGY 101 & ZOOLOGY 102)	5 ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
Natural Resources Elective Course	2-4 Statistics Course	3-4
General Education Courses	3-11 BOTANY 401 <sup>2</sup>	4
	Wildlife Resources Course	3
	10-20	15-16
Total Credits 25-36		

<b>Junior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
Breadth Elective Course	3 F&W ECOL 306	4
F&W ECOL 561	3 ZOOLOGY/AN SCI/ F&W ECOL 520 & ZOOLOGY/AN SCI/ F&W ECOL 521	6
General Education Courses <sup>1</sup>	3-12 Wildlife Resources Course	3
	Forest Management Course <sup>3</sup>	3-4
	9-18	16-17
Total Credits 25-35		

<b>Senior</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
F&W ECOL 401 <sup>4</sup>	3 Capstone Course <sup>6</sup>	3
F&W ECOL/ENVIR ST/ ZOOLOGY 360 <sup>5</sup>	3 F&W ECOL 655	3
General Education Courses <sup>1</sup>	4-12 ZOOLOGY/ANTHRO/ BOTANY 410 or GENETICS 466	3
	General Education Courses <sup>1</sup>	3-9
	10-18	12-18
Total Credits 22-36		

<sup>1</sup> Gen#Ed requirements include communications, ethnic studies, humanities, social science, or international studies. See Requirements tab for more details.

<sup>2</sup> BOTANY 400 offered in Fall

<sup>3</sup> Or fall

<sup>4</sup> Or other physiology

<sup>5</sup> Or F&W ECOL/BOTANY/ENVIR ST/ZOOLOGY 651 in spring; F&W ECOL/ENVIR ST/ZOOLOGY 360 counts for the CALS International Studies requirement, but F&W ECOL/BOTANY/ ENVIR ST/ZOOLOGY 651 does not

<sup>6</sup> F&W ECOL 577 offered in Fall

Possible places where students may cut down on courses: COMM#A placement test, COMM#B taken as ZOOLOGY/BIOLOGY/ BOTANY 152, QR#A placement test, AP/IB credits (biology, social

sciences, humanities, language, chemistry, physics, math, statistics), Natural Resources Management electives course for social science course, F&W ECOL/ENVIR ST/ZOOLOGY 360 for international studies

- Students should take elective courses in place of the Gen#Ed courses once they have completed their Gen#Ed requirements

Rickenbach, Mark (chair)  
Samuel, Michael  
Stanosz, Glen  
Townsend, Philip  
Van Deelen, Timothy

## ASSOCIATE PROFESSORS

Lutz, R. Scott  
Ozdogan, Mutlu  
Pauli, Jonathan  
Peery, M. Zach  
Pidgeon, Anna  
Rissman, Adena

## ASSISTANT PROFESSORS

Johnston, Craig  
Zuckerberg, Benjamin

## FACULTY ASSOCIATE

Berkelman, James

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING IN WILDLIFE ECOLOGY

All undergraduate students are assigned to an advisor when they declare the major. If you were not assigned an advisor, do not know who your advisor is, would like to talk to someone about switching advisors, or if your advisor is not available, please contact our Student Services Coordinator, Sara Rodock (rodock@wisc.edu, 608-262-9926 or appointment link for current UW–Madison students (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)).

Undergraduates in wildlife ecology are required to meet with their advisor before they can enroll for the upcoming term. Please remember to bring a DARS report with you to any advising appointment. You can request a DARS through your student center in MyUW (<http://my.wisc.edu>). Although drop-ins and emergencies can be accommodated by someone in the department, the student is best served if they make an appointment with their assigned advisor.

For more information about the Wildlife Ecology BS or the department in general, please contact the Student Services Coordinator, Sara Rodock (rodock@wisc.edu, 608-262-9926 or appointment link for current UW–Madison students (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)).

### CAREERS AND PROFESSIONAL DEVELOPMENT

For more information on careers available to forest and wildlife ecology students please visit our Internship & Job Resources (<http://fwe.wisc.edu/internship-job-resources>) page. For more information on other academic, co-curricular, financial aid, and career opportunities and services available to Forest & Wildlife Ecology students, please visit the CALS "Building Your Career" (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-development>) page. Students in the major are welcome to make an individual appointment with Sara Rodock (rodock@wisc.edu) (appointment link for current UW–Madison students (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>))) to discuss a number of career-related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

## PEOPLE

### PROFESSORS

Bowe, Scott  
Drake, David  
Karasov, William  
Kruger, Eric  
Mladenoff, David  
Radeloff, Volker  
Ribic, Christine

## GENETICS

This department offers an undergraduate major under the bachelor of science degree program. The basic requirements of this curriculum include: two years of chemistry, one year of physics, one year of general biology and one of general genetics or two years of Biocore, one semester of calculus, and biostatistics. The major requirements include: introductory biochemistry, laboratory experience, and 12 credits of genetics and genetics-related courses chosen from an approved list.

Genetics is a bachelor's program for students seeking a broad knowledge of heredity in relation to human, animal, and plant breeding, and for students preparing for teaching and research in genetics. A B.S. degree with a major in genetics prepares students for many jobs in the growing biotechnology industry. Some of these jobs are in research and technical support, technical writing, quality control, assay development, and sales or marketing.

Many graduates continue their education by pursuing an advanced degree. Genetics students are competitive for admission to medical schools, veterinary schools, and graduate schools throughout the country. Graduate students may elect a Ph.D. program to prepare for careers in research, academia, and industry. Others may elect an M.S. program for a career in genetic counseling.

Because of the diversity and quantity of research activity on the Madison campus, the discipline of genetics provides an extraordinary number and range of opportunities for undergraduate majors to gain experience in research, a virtual prerequisite for admission to the top graduate programs in the biological sciences and for entry level positions in the biotechnology industry.

## DEGREES/MAJORS/CERTIFICATES

- Genetics, B.S. (p. 133)

## PEOPLE

### PROFESSORS

Anderson, Phil; Carroll, Sean; Doebley, John (chair); Engels, Bill; Gasch, Audrey; Ikeda, Aki; Laughon, Al; Masson, Patrick; Payseur, Bret; Pelegri, Francisco; Perna, Nicole; Prolla, Tom; Schwartz, David; Wassarman, David; Yin, Jerry

### ASSOCIATE PROFESSORS

Chang, Qiang; O'Connor-Giles, Kate; Skop, Ahna

### ASSISTANT PROFESSORS

Hittinger, Chris; Loewe, Laurence; Pool, John; Zhong, Xuehua

### FACULTY ASSOCIATES

Tilman, Kit; Vermillion Kalmon, Katie

### UNDERGRADUATE ADVISORS

Reck, Martha; Tilman, Kit; Vermillion Kalmon, Katie

## GENETICS, B.S.

Genetics is a bachelor's program for students seeking a broad knowledge of heredity in relation to human, animal, and plant breeding, and for students preparing for teaching and research in genetics. A B.S. degree with a major in genetics prepares students for many jobs in the growing biotechnology industry. Some of these jobs are in research and technical support, technical writing, quality control, assay development, and sales or marketing.

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Because of the diversity and quantity of research activity on the Madison campus, the discipline of genetics provides an extraordinary number and range of opportunities for undergraduate majors to gain experience in research, a virtual prerequisite for admission to the top graduate programs in the biological sciences and for entry level positions in the biotechnology industry.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

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

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

First Year Seminar (p. 33)	1
International Studies (p. 33)	3
Physical Science Fundamentals	4-5
CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)	

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
STAT 371	Introductory Applied Statistics for the Life Sciences	3
<b>Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
<b>Physics</b>		
Select one of the following:		10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics (recommended)	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	
<b>Biology</b>		
Select one of the following options:		10
Option 1:		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	
Option 2:		
BOTANY/ BIOLOGY 130	General Botany	

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory
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Option 3:

BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology
Select two of the following labs:	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 486	Organismal Biology Laboratory

### Core Biology Requirements

Select one of the following options: 6

Option 1:

GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2 (recommended)
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Option 2:<sup>1</sup>

GENETICS 466	Principles of Genetics additional 3 credit subset 1 course (see course list below)
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Option 3:<sup>2</sup>

BIOCORE 485	Organismal Biology
BIOCORE 587	Biological Interactions
BIOCHEM 501 or BIOCHEM 507	Introduction to Biochemistry <sup>3</sup> or General Biochemistry I
	3

Select 2 credits from the following: 2

GENETICS 545	Genetics Laboratory
GENETICS 299	Independent Study <sup>4</sup>
GENETICS 699	Special Problems <sup>4</sup>
GENETICS 681	Senior Honors Thesis
GENETICS 682	Senior Honors Thesis
GENETICS 399	Coordinative Internship/Cooperative Education

### Electives

Select 12 credits with 6 credits minimum from subset 1 (see course list below) 12

### Capstone

Select one of the following: 3-9

Option 1:

GENETICS 566	Advanced Genetics (offered in spring semester)
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Option 2:

GENETICS 564	Genomics and Proteomics (offered in spring semester) <sup>5</sup>
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Option 3 (must be taken concurrently):<sup>5</sup>

GENETICS 699	Special Problems (offered in fall semester)
GENETICS 567	Companion Research Seminar (offered in fall semester)

Option 4 (must be taken concurrently):

GENETICS 681	Senior Honors Thesis
GENETICS 682	Senior Honors Thesis

GENETICS 567 Companion Research Seminar  
(offered in fall semester)

Total Credits 67-82

- <sup>1</sup> Subset 1 course will not count toward 12 subset credits.  
<sup>2</sup> If the Biocore sequence was taken to fulfill the Biology requirement (BIOCORE 381 and BIOCORE 382 and BIOCORE 383 and BIOCORE 384), then BIOCORE 485 and BIOCORE 587 must be taken.  
<sup>3</sup> If BIOCHEM 507 is taken, it must be taken as a part of BIOCHEM 507 General Biochemistry I & BIOCHEM 508 General Biochemistry II, which counts in Subset 2 of electives.  
<sup>4</sup> Consult with your advisor if genetics-related research will be performed in a department other than Genetics.  
<sup>5</sup> May count for Subset 1 or Capstone.

## SUBSET COURSES

### SUBSET 1

Code	Title	Credits
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
BIOCHEM 550	Topics in Medical Biochemistry	2
GENETICS/HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2
GENETICS 564	Genomics and Proteomics	3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
GENETICS/ CHEM 626	Genomic Science	2
GENETICS 627	Animal Developmental Genetics	3
GENETICS/BOTANY/ MD GENET 629	Evolutionary Genetics	3
GENETICS 631	Plant Genetics	2
GENETICS 633	Population Genetics	3
GENETICS/BOTANY/ M M & I/MICROBIO/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3-4
GENETICS 660	Evolutionary Genomics	2
GENETICS 662	Cancer Genetics	2
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1</sup>	1-3
MICROBIO 470	Microbial Genetics & Molecular Machines	3

<sup>1</sup> May choose only Evolutionary Systems Biology, Developmental Genetics for Conservation or Epigenetics.

### SUBSET 2

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	4
AGRONOMY/HORT 501	Principles of Plant Breeding	3
AGRONOMY/HORT 502	Techniques of Plant Breeding	1
BIOCHEM 508	General Biochemistry II	3-4
B M I/COMP SCI 576	Introduction to Bioinformatics	3
BMOLCHEM 504	Human Biochemistry Laboratory	2
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/ZOOLOGY 410	Evolutionary Biology	3
DY SCI/AN SCI 361	Introduction to Animal and Veterinary Genetics	2
DY SCI/AN SCI 362	Veterinary Genetics	2
DY SCI/AN SCI 363	Principles of Animal Breeding	2
HORT/PATH-BIO 500	Molecular Biology Techniques	3
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology	1
MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
M M & I 341	Immunology	3
M M & I 460	Techniques in DNA Science for Microbiologists	3
PL PATH/BOTANY/ ENTOM 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3

A biological science course as approved by advisor (must have significant genetics component)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Demonstrate an understanding of genetic principles at the level of molecules, cells, systems, organisms, populations and ecosystems.
2. Use quantitative approaches to evaluate experimental design, critically interpret, and analyze data sets from primary research papers.
3. Integrate genetic data and apply the scientific method to formulate research questions.
4. Communicate genetic concepts to multiple audiences with written, oral and visual presentations.
5. Understand mechanisms of segregation and expression of genetic material during development and homeostasis.
6. Apply primary genetic approaches used to study biological processes, including the use of model organisms.
7. Describe how environmental influences may modify the inheritance and expression of the genetic material.
8. Apply the use of quantitative methods to implement genetic analysis, including the linkage of gene variants with traits.
9. Appreciate how the fields of genomics, proteomics and other data-driven approaches facilitate research and clinical assessment.
10. Understand the contribution of genetics analysis to elucidating population history and evolution.
11. Address the connection between genetics and trends in clinical practice, such as personalized medicine, cloning and regenerative biology.
12. Understand evolutionary processes, with current variation in human traits as its natural outcome.
13. Appreciate the contributions of genetic methods to sustainability, including food production, bio-energy generation and the preservation of ecosystems and biodiversity.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE GENETICS FOUR YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104 (or elective course)	5
MATH 221 (or math placement)	5 International Studies	3
GENETICS 155 (Freshman Seminar)	1 COMM A Course (if needed)	3
Electives (Humanities, Social Science, Ethnic Studies)	3 Humanities / Literature / Arts / Ethnic Studies Course	3
	13-14	14

Total Credits 27-28

##### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344 & CHEM 345	5
BIOCORE 381 & BIOCORE 382	5 BIOCORE 383 & BIOCORE 384	5
Biostatistics Course	3 Humanities / Literature / Arts / Ethnic Studies Course	5
Humanities / Literature / Arts / Ethnic Studies Course	3 GENETICS 299 (Independent Research)	2
	14	17

Total Credits 31

##### Junior

Fall	Credits Spring	Credits
PHYSICS 103, 207, or 201 <sup>1</sup>	4-5 PHYSICS 104, 208, or 202 <sup>1</sup>	4-5
GENETICS 466, 467, or BIOCORE 485	3 GENETICS 468 or BIOCORE 587 (or Subset 1 elective)	3
BIOCHEM 501 or 507	3 BIOCHEM 508 (or Advanced course)	3
Electives	5 Genetics Elective	5
	15-16	15-16

Total Credits 30-32

##### Senior

Fall	Credits Spring	Credits
Advanced Genetics Electives	6 Advanced Genetics Electives	3
Senior Thesis (681-Research) <sup>2</sup>	2-3 Senior Thesis (682-Research) <sup>2</sup>	2-3



Electives (Humanities, Social Sciences, Ethnic Studies)	3 Genetics Capstone	3
Electives	6 Electives	6
	17-18	14-15

Total Credits 31-33

<sup>1</sup> Physics could be taken in year 2 (consult your advisor)

<sup>2</sup> If in CALS Honors in Research

- 120 total credits required for bachelor's degree—aim for 15 credits per semester.
- Students who have not maintained a GPA of at least 2.5 by the end of their first two years, or transfer students by the end of their first year in residence, need to evaluate their major and career options with an advisor.
- Freshmen may elect to take INTER-AG 155 Issues in Agriculture, Environment, and Life Sciences, 1-credit freshman seminar course offered in the fall, and/or GENETICS 155 Freshman Seminar in Genetics, 1-credit freshman seminar course offered in the spring. INTER-AG 155 fulfills the first year seminar requirement. GENETICS 155 is an elective course.
- Study Abroad is an enriching experience. Check with your advisor on how you can fulfill your curriculum and study abroad.
- UGA (Undergraduate Genetics Association): check out the club's website: [facebook.com/groups/UGA.UWMadison](https://www.facebook.com/groups/UGA.UWMadison) (<https://www.facebook.com/groups/UGA.UWMadison>)

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISORS

Reck, Martha; Tilmann, Kit; Vermillion Kalmon, Katie.

Current students may use scheduling assistant (<https://calendar.wisc.edu/scheduling-assistant>) to schedule an appointment with an undergraduate advisor.

### CAREERS

The biotechnology industry has exploded within the last decade, providing many diverse career opportunities for our graduates. A strong background in genetics will prepare you for careers in research technical support, technical writing, quality control, assay development, technical services, and sales or marketing.

Many of our graduates continue their education by pursuing an advanced degree. Our students are competitive for admission to medical schools, veterinary schools, and graduate schools throughout the country. Students may elect a Ph.D. in genetics to prepare them for careers in research, academia, and industry. Others may elect an M.S. program for a career in genetics counseling.

## PEOPLE

### PROFESSORS

Anderson, Phil; Carroll, Sean; Doebley, John (chair); Engels, Bill; Gasch, Audrey; Ikeda, Aki; Laughon, Al; Masson, Patrick; Payseur, Bret; Pelegri, Francisco; Perna, Nicole; Prolla, Tom; Schwartz, David; Wassarman, David; Yin, Jerry

### ASSOCIATE PROFESSORS

Chang, Qiang; O'Connor-Giles, Kate; Skop, Ahna

### ASSISTANT PROFESSORS

Hittinger, Chris; Loewe, Laurence; Pool, John; Zhong, Xuehua

### FACULTY ASSOCIATES

Tilmann, Kit; Vermillion Kalmon, Katie

### UNDERGRADUATE ADVISORS

Reck, Martha; Tilmann, Kit; Vermillion Kalmon, Katie

## HORTICULTURE

The Department of Horticulture at the University of Wisconsin–Madison is one of the four original departments of the College of Agricultural and Life Sciences and was founded in 1889. The department provides programs that are focused on fundamental studies of plant biology, crop production, and utilization of horticultural crops. It also seeks to provide educational opportunities for the pursuit of careers in horticulture, strengthen the competitive position of Wisconsin's horticulture industry, and increase the use of plants for environmental improvement and as a source of personal enrichment. The work of department faculty, staff, and students has made substantial impacts in the state and nation for over 125 years and continues to do so.

The department prides itself on cutting edge research focusing on horticultural plants, solving problems for our horticultural industry partners and farmers, helping students gain key experiences in research and outreach during their degree programs, and serving both the State of Wisconsin and the broader scientific community through the generation of new knowledge, techniques, and discoveries that can benefit society.

The department maintains a vibrant undergraduate major. Instruction is offered in all of the primary areas of horticulture and additional coursework is available in a number of subjects including molecular biology and bioinformatics. Approximately \$25,000 in scholarship funds are available annually to undergraduate students in the department each year. The department's graduate program offers both M.S. and Ph.D. degrees in a variety of specialties. Many graduate students advised by horticulture faculty also pursue graduate degrees in programs such as plant breeding and plant genetics, cell and molecular biology, and agroecology. The department has also recently created a new M.S. program that has an emphasis in organic and sustainable production. The department offers some unique international opportunities in Costa Rica and other Central American countries that focus on tropical horticulture.

The Department of Horticulture is home to a number of successful outreach programs that serve the citizens, public sector, and businesses of the State of Wisconsin. These include the Nutrient and Pest Management Program, the Integrated Pest and Crop Management Program, the Crop Diagnostic Training program, the IR-4 program, the Wisconsin Institute for Sustainable Agriculture, the Master Gardener Program, and the Allen Centennial Gardens. In addition to these activities, faculty and staff are active in field days, Extension programs, courses, seminars, and webinars, and author newsletters and other media that are distributed statewide.

## DEGREES/MAJORS/CERTIFICATES

- Horticulture, B.S. (p. 139)

## PEOPLE

### PROFESSORS

Bamberg, Colquhoun, Goldman (chair), Havey, Jiang, Krysan, Nienhuis, Palta, Patterson, Simon, Spooner, Yandell

### ASSOCIATE PROFESSORS

Bethke, Jansky, Jull, Weng, Zalapa

### ASSISTANT PROFESSORS

Atucha, Dawson, Endelman

### INSTRUCTIONAL STAFF

Calderon, Nelson, Oosterwyk

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS@UW-MADISON

UW-Madison offers an extensive scholarship program called Scholarships@UW (<https://scholarships.wisc.edu/Scholarships>). In order to be considered for scholarships, students must fill out the online application. The following is a list of scholarships available to horticulture majors.

#### BURDEAN STRUCKMEYER SCHOLARSHIP

A Madison area native who obtained her PhD. in botany-horticulture, Burdean Struckmeyer spent her entire career in the UW Department of Horticulture. Her research was vital to interpreting the nature of tree diseases including Dutch Elm and Oak Wilt. This scholarship is to honor her career and research in horticulture.

Awarded to CALS undergraduate students enrolled in horticulture with demonstrated financial need.

#### DAVID CURWEN STUDENT ENHANCEMENT SCHOLARSHIP

Dr. David Curwen joined the UW Department of Horticulture in 1963 after earning his Ph.D. at Penn State. Some of his many accomplishments while on campus include developing and delivering effective wind erosion control, improved irrigation management, and reducing the need for pesticides for potatoes and other vegetables. This scholarship is set up in recognition of his career.

Awarded to undergraduate students enrolled in the Department of Horticulture. Preference is given to students who demonstrate leadership ability and have good academic standing. A minimum GPA of 3.0 is required.

#### GAVIN & MARY WEIS RESEARCH SCHOLARSHIP

This CALS scholarship is provided in honor of Gavin and Mary Weis.

Awarded to CALS undergraduate students majoring in horticulture or other plant sciences. Students must demonstrate leadership in their field and have a minimum GPA of 3.5. The Department of Horticulture nominates students for this award.

#### HELEN MACDONALD AWARD (LAKE GENEVA GARDEN CLUB) SCHOLARSHIP

This CALS scholarship is provided in honor of Helen MacDonald.

Awarded to junior students with satisfactory academic performance in CALS with order of preference given in the following areas of study: (1) conservation, (2) horticulture, (3) landscape architecture. Minimum GPA of 2.75. Career interest preferred: natural resource management/conservation.

#### HERBERT J. HOPEN SCHOLARSHIP

This CALS scholarship is provided by Herbert J. Hopen.

Awarded to undergraduate students in CALS majoring in horticulture. This scholarship is awarded based upon high academic achievement.

#### RHO CHAPTER OF PI ALPHA XI SCHOLARSHIP

This CALS scholarship is provided by Rho Chapter of Pi Alpha Xi.

Awarded to junior or senior students majoring in horticulture and in good academic standing. Minimum GPA of 3.0.

#### SOUTHEAST WISCONSIN MASTER GARDENERS, INC. SCHOLARSHIP

This CALS scholarship is provided by SouthEast Wisconsin Master Gardeners, Inc.

Awarded to sophomores, juniors, seniors or graduate students in CALS. Minimum GPA of 2.0. Preference given to students from Milwaukee and Waukesha counties.

#### WISCONSIN AGRI-BUSINESS ASSOCIATION SCHOLARSHIP FUND

This CALS scholarship is provided by the Wisconsin Agri-Business Association (WABA).

Recipients of this award are juniors or seniors majoring in either soil science, plant pathology, agronomy, entomology, or horticulture. Recipients must demonstrate an interest in soil fertility and plant nutrition or pest management. Each student may receive this scholarship only once and must be a U.S. citizen. Consideration is given to scholastic ability, and leadership activities.

#### WES HANSCHER MEMORIAL SCHOLARSHIP

The Wes Hansche Memorial Scholarship is a memorial to Wesley Hansche who was a distinguished Wisconsin horticulturist.

Awarded to full-time undergraduate students in CALS in the Department of Horticulture. Recipients must be Wisconsin residents with consideration given to extracurricular activities and academic standing. A minimum GPA of 2.0 is required.

#### WILLIAM F. CONNELL MEMORIAL SCHOLARSHIP

After having discovered a new variety of apple in 1949, William Connell grew his meager orchard into a 13,000 tree orchard—and the home to his namesake, the Connell Red Apple. In addition to running the Connell's Orchard, Mr. Connell also served as president of the Wisconsin Horticultural Society. This scholarship for horticulture students was established as a memorial of his achievements by friends and family.

Awarded to undergraduates in the Department of Horticulture in the College of Agricultural and Life Sciences. The recipient must be a

Wisconsin resident and have satisfactory academic standing. Minimum GPA of 2.75.

## WISCONSIN STATE CRANBERRY GROWERS ASSOCIATION SCHOLARSHIP

This CALS scholarship is provided by Wisconsin State Cranberry Growers Association.

Awarded to junior or senior students in CALS that are in good academic standing, with preference given to students who show an interest in the cranberry-growing industry. The recipients are nominated by the departments of Plant Pathology, Soil Sciences, Horticulture and Entomology. Minimum GPA of 2.0.

## HORTICULTURE, B.S.

Horticulturists work to enrich our lives by integrating and applying plant science, environmental science, molecular biology, biotechnology, genetics, physiology, and management. Specifically, horticultural science deals with the development, production, growth, distribution, and use of fruits, vegetables, greenhouse crops, ornamentals, turf, and specialty plant crops (used for flavoring and medicine). Horticultural science is one of the most diverse biological sciences one can study at a university. Not only are the biology and genetics of crop plants interesting, but the application of this knowledge is equally important in a myriad of situations. Undergraduate horticulture majors will obtain specialized training in greenhouse/field management and the production and use of fruits, vegetables, nuts, herbaceous/woody ornamentals, and turfgrass through the bachelor of science degree program.

In addition to obtaining a job with an undergraduate degree in horticulture, the major provides an excellent background for graduate study in the field of plant sciences. Areas of graduate study include plant breeding and plant genetics, horticulture, agronomy, plant pathology, or other related fields such as biology, environmental science, natural resource management, agroecology, and genetics.

Students with either undergraduate or graduate degrees in horticulture have a variety of career opportunities. Recent studies show that there are more jobs in agriculture in the US than there are students graduating with agricultural Bachelor of Science degrees to fill them. Estimates in 2015 showed that there were 57,900 job openings in agriculture and related fields and only 35,400 students graduating annually in those areas. As our world grapples with the need to contribute science-based solutions to feeding 9 billion people by 2050, students trained in the agricultural and horticultural sciences will be called on to contribute.

Horticulture graduates may find opportunities in working on developing higher yielding crops or crops that can withstand more stressful growing conditions. Others may find opportunities working on improving qualities such as flavor, appearance, texture, and postharvest shelf life for a wide range of horticultural commodities from fruits to vegetables to flowers. Sustainable production is a particular area of growth where horticultural expertise can make a contribution. Students may wish to read a recent report from the United States Department of Agriculture and Purdue University (<https://www.purdue.edu/usda/employment/wp-content/uploads/2015/04/2-Page-USDA-Employ.pdf>) on the subject of employment opportunities in this area.

The horticulture degree serves as excellent preparation for careers in food production, plant nurseries, community supported agriculture (CSA), public gardens, landscaping, greenhouse production, teaching,

public parks, vegetable fields, golf courses, urban agriculture, extension and community based educational work, work in research labs, and the health sciences. In addition, many horticultural science majors go on to work in public sector jobs including city and state positions with the Department of Natural Resources, the Wisconsin Department of Agriculture, and University of Wisconsin Extension. Students with degrees in horticulture also work in hospitals (horticultural therapy), aerospace (food and recycling in space labs), and zoos (managing environments for animals and visitors). Although the career opportunities are numerous, horticulture students have a common desire to work intensively with plants to improve our environment and our health.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		3-5

MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II <sup>1</sup>	
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
COMP SCI 300	Programming II	
<b>Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10-12
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
And select two of the following:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	
<b>Agricultural Breadth</b>		
ENTOM/ ZOOLOGY 302	Introduction to Entomology	3-4
or ENTOM 351	Principles of Economic Entomology	
GENETICS 466	Principles of Genetics	3
Select one of the following:		3-4
BOTANY 300	Plant Anatomy	
BOTANY 305	Plant Morphology and Evolution	
BOTANY 500	Plant Physiology	
PL PATH 300	Introduction to Plant Pathology	3-4
or PL PATH/ F&W ECOL/HORT/ LAND ARC 309	Diseases of Trees and Shrubs	
SOIL SCI 301	General Soil Science	4
<b>Horticultural Core</b>		
HORT 120	Survey of Horticulture	3

HORT 121	Horticulture Colloquium	1
HORT 227	Propagation of Horticultural Plants	3
HORT 320	Environment of Horticultural Plants	3
HORT/AGRONOMY/ SOIL SCI 326	Plant Nutrition Management	3
Select one of the following:		3
HORT 334 & HORT 335	Greenhouse Cultivation and Greenhouse Cultivation Lab <sup>2</sup>	
HORT 375	Special Topics (Organic Vegetable Production)	
Select three of the following:		9
HORT 234	Ornamental Plants	
HORT/ PL PATH 261 & HORT/ PL PATH 262	Sustainable Turfgrass Use and Management and Turfgrass Management Laboratory	
HORT 375	Special Topics (Arboriculture and Landscape Maintenance)	
or HORT/ LAND ARC 263	Landscape Plants I	
HORT 345	Fruit Crop Production (alternate years) <sup>2</sup>	
HORT 370	World Vegetable Crops	
<b>Electives</b>		
Select 5 elective credits (see list below)		5
<b>Capstone</b>		
Select one of the following:		1-3
A course as approved by advisor and chair of the curriculum committee, usually taken as the following: <sup>3</sup>		
HORT 376 & HORT 378	Tropical Horticultural Systems and Tropical Horticultural Systems International Field Study	
HORT 399	Coordinative Internship/Cooperative Education	
HORT 699	Special Problems	
Total Credits		70-84

<sup>1</sup> If MATH 171 is taken, MATH 217 must also be taken.

<sup>2</sup> Alternate years.

<sup>3</sup> Example activities include broad-based internships or broad-based international study.

## ELECTIVE COURSES

Students may not double count courses within the major requirements (Agricultural Breadth, Horticultural Core, Electives, Capstone)

Code	Title	Credits
<b>Business and Economics</b>		
A A E 215	Introduction to Agricultural and Applied Economics	3
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 246	Climate Change Economics and Policy	3
A A E 319	The International Agricultural Economy	3

A A E 320	Farming Systems Management	3
A A E 323	Cooperatives	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3

### Ecology, Conservation, and the Environment

BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
F&W ECOL/C&E SOC/ SOC 248	Environment, Natural Resources, and Society	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin	4
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOSCI/ ENVIR ST 106	Environmental Geology	3
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Food, Health and Human Well-being:

A A E/C&E SOC/ SOC 340	Issues in Food Systems	3-4
AGRONOMY/ ENTOM/ NUTR SCI 203	Introduction to Global Health	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ A A E/INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 377	Cropping Systems of the Tropics	3
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/SOC 650	Sociology of Agriculture	3

FOOD SCI/ AN SCI 321	Food Laws and Regulations	1	BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3	BOTANY 500	Plant Physiology	3-4
HORT 345	Fruit Crop Production	3	F&W ECOL 415	Tree Physiology	3
HORT 350	Plants and Human Wellbeing	2	<b>Plant Breeding, Genetics, and Biotechnology</b>		
HORT 370	World Vegetable Crops	3	AGRONOMY/ C&E SOC/MED HIST/ PHILOS 565	The Ethics of Modern Biotechnology	3-4
HORT 375	Special Topics (Organic Vegetable Production)	1-4	BIOCHEM 501	Introduction to Biochemistry	3
NUTR SCI 132	Nutrition Today	3	CHEM 341	Elementary Organic Chemistry	3
PL PATH 311	Global Food Security (Food Systems, Sustainability, and Climate Change)	3	CHEM 342	Elementary Organic Chemistry Laboratory	1
PL PATH 375	Special Topics	1-4	CHEM 343	Introductory Organic Chemistry	3
<b>Landscape Horticulture</b>			HORT/ AGRONOMY 338	Plant Breeding and Biotechnology	3
BSE 201	Land Surveying Fundamentals	1	HORT/AGRONOMY/ BOTANY 339	Plant Biotechnology: Principles and Techniques I	4
BSE 243	Operating and Management Principles of Off-Road Vehicles	3	HORT/AGRONOMY/ BOTANY 340	Plant Cell Culture and Genetic Engineering	4
F&W ECOL 375	Special Topics (Tree Risk Assessment and Decay Detection)	1-4	HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	2
HORT 234	Ornamental Plants	3	HORT 375	Special Topics (Epigenetics)	1-4
HORT/PL PATH 261	Sustainable Turfgrass Use and Management	2	HORT/PATH-BIO 500	Molecular Biology Techniques	3
HORT/PL PATH 262	Turfgrass Management Laboratory	1	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
HORT/ LAND ARC 263	Landscape Plants I	3	HORT/ AGRONOMY 502	Techniques of Plant Breeding	1
HORT/SOIL SCI 332	Turfgrass Nutrient and Water Management	3	HORT/ GENETICS 550	Molecular Approaches for Potential Crop Improvement	3
HORT 334	Greenhouse Cultivation	2	HORT/BOTANY/ GENETICS 561	Introductory Cytogenetics	2-3
HORT 335	Greenhouse Cultivation Lab	1	HIST SCI 202	The Making of Modern Science	3
HORT 375	Special Topics (Arboriculture and Landscape Maintenance)	1-4	<b>Public Policy and Environmental Ethics</b>		
LAND ARC 250	Survey of Landscape Architecture Design	3	C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
LAND ARC 260	History of Landscape Architecture	3	ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
LAND ARC 262	Landscape Inventory and Evaluation Methods	4	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
<b>Pest Management</b>			POLI SCI 272	Introduction to Public Policy	3-4
AGRONOMY/ HORT 328	Integrated Weed Management	4	POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3	<b>Soil Science</b>		
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2	SOIL SCI 305	Field Study of Soil	1
PL PATH/ BOTANY 332	Fungi	4	SOIL SCI 321	Soils and Environmental Chemistry	3
<b>Plant Biology</b>			SOIL SCI 322	Physical Principles of Soil and Water Management	3
BOTANY 300	Plant Anatomy	4	SOIL SCI/ PL PATH 323	Soil Biology	3
BOTANY 305	Plant Morphology and Evolution	4	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
BOTANY 400	Plant Systematics	4	SOIL SCI/ ENVIR ST 575	Assessment of Environmental Impact	3
BOTANY 401	Vascular Flora of Wisconsin	4	<b>Weather and Climate Change</b>		
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3			
BOTANY 422	Plant Geography	3			

ATM OCN 101	Weather and Climate	4
ATM OCN/ENVIR ST/ GEOSCI 102	Climate and Climate Change	3
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
ATM OCN/ENVIR ST/ GEOG 332	Global Warming: Science and Impacts	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take HORT 289 Honors Independent Study, HORT 681 Senior Honors Thesis and HORT 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist for Horticulture (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information. The Department of Horticulture also works collaboratively to strongly support students through the Honors in Research program.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Acquire, integrate and apply knowledge of plant science to horticultural systems.
2. Demonstrate interdisciplinary knowledge and competency in managing horticultural systems.
3. Synthesize knowledge and use insight and creativity to better understand and improve horticultural systems.
4. Appreciate and communicate the diverse impacts of horticulture on people.
5. Demonstrate professionalism and proficiency in skills that relate to horticulture.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE HORTICULTURE FOUR-YEAR PLAN (WITH BOTANY 130 IN THE FIRST SEMESTER)

##### Freshman

Fall	Credits Spring	Credits
HORT 120	3 MATH 113	3
HORT 121	1 Ethnic Studies Course	3
BOTANY/BIOLOGY 130 <sup>1</sup>	5 ZOOLOGY/BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	5
MATH 112	3 International Studies / Electives Courses	5
COMM A Course	3	
First Year Seminar	1	
	16	16

Total Credits 32

##### Sophomore

Fall	Credits Spring	Credits
HORT 320	3 CHEM 104	5
CHEM 103	4 HORT 334 & HORT 335 (Organic Vegetable Production) <sup>2</sup>	3-4
COMM B Course	3 HORT 227	3
Electives	4-5 Electives	4-5
	14-15	15-17

Total Credits 29-32

##### Junior

Fall	Credits Spring	Credits
SOIL SCI 301	4 SOIL SCI/AGRONOMY/ HORT 326	3
PL PATH 300 or 309	4 ENTOM/ZOOLOGY 302 or 351	3-4
Horticulture Breadth Course	3 Math / Statistics / Computer Science Course	3
Electives	4-5 Botany Course Electives	3-4 3
	15-16	15-17

Total Credits 30-33

##### Senior

Fall	Credits Spring	Credits
Horticulture Capstone Course	3 Horticulture Capstone Course (if not taken in fall)	3
Horticulture Breadth Course	3 Horticulture Breadth or Elective Courses <sup>3</sup>	12
GENETICS 466	3	

Horticulture Breadth or Elective Courses	6-7	
	15-16	15

Total Credits 30-31

- <sup>1</sup> BOTANY/BIOLOGY 130 and ZOOLOGY/BIOLOGY 101/ZOOLOGY/BIOLOGY 102 are the preferred biology track
- <sup>2</sup> Offered alternate years
- <sup>3</sup> Note that at least 120 credits must be completed to be eligible for graduation. Aim to complete an average of 15 credits per semester.
- Note:** HORT 121 Horticulture Colloquium can be taken in any year

## SAMPLE HORTICULTURE FOUR-YEAR PLAN (WITH CHEM 103 IN THE FIRST SEMESTER)

### Freshman

Fall	Credits Spring	Credits
HORT 120	3 Ethnic Studies Course	3
HORT 121	1 CHEM 104	5
CHEM 103	4 BOTANY/BIOLOGY 130 <sup>1</sup>	5
MATH 112	3 COMM A Course	3
First Year Seminar	1	
	12	16

Total Credits 28

### Sophomore

Fall	Credits Spring	Credits
HORT 320	3 International Studies / Electives	5-6
Hort Breadth	3 HORT 227	3
COMM B	3 HORT 334 & HORT 335 (Organic Vegetable Production) <sup>2</sup>	3-4
ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102	5 ENTOM/ZOOLOGY 302 or 351	4
	14	15-17

Total Credits 29-31

### Junior

Fall	Credits Spring	Credits
SOIL SCI 301	4 SOIL SCI/AGRONOMY/HORT 326	3
PL PATH 300 or 309	4 Horticulture Breadth or Elective Courses	10
Horticulture Breadth Course	3 Botany Course	3-4
International Studies / Elective Courses	4-5	
	15-16	16-17

Total Credits 31-33

### Senior

Fall	Credits Spring	Credits
Horticulture Capstone Course	3 Horticulture Capstone Course (if not taken in fall)	3
Horticulture Breadth or Elective Courses	10 Horticulture Breadth or Elective Courses <sup>3</sup>	12
GENETICS 466	3	
	16	15

Total Credits 31

- <sup>1</sup> BOTANY/BIOLOGY 130 and ZOOLOGY/BIOLOGY 101/ZOOLOGY/BIOLOGY 102 are the preferred biology track
- <sup>2</sup> Offered alternate years
- <sup>3</sup> Note that at least 120 credits must be completed to be eligible for graduation. Aim to complete an average of 15 credits per semester.
- Note:** HORT 121 Horticulture Colloquium can be taken in any year

## ADVISING AND CAREERS

### ADVISING

Undergraduate students in the Department of Horticulture are assigned to a minimum of two advisors: our staff advisor and a faculty mentor. Prospective students should meet with the staff advisor first; the advisor will help match students to a faculty mentor in the area of interest. Current students can meet with either the staff advisor or their assigned faculty mentor. Students are required to meet with their advisor at least once each semester.

### STAFF ADVISOR

Our staff advisor is available to help prospective and current students with major exploration, general degree requirements and policies, academic planning, campus resources, and so on.

Contact: Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu); schedule an advising appointment here (<http://go.wisc.edu/h642e9>).

### FACULTY MENTORS

Our faculty mentors are available to help current students with internships and careers, graduate school preparation, research opportunities, etc. Contact information for faculty mentors is available on the faculty profile page (<https://horticulture.wisc.edu/faculty-and-staff-2/faculty-and-staff>).

### CAREERS

A degree in horticulture serves as excellent preparation for careers in: applied plant science, food crop production, plant breeding & plant genetics, urban agriculture, gardening, landscaping, community supported agriculture (CSA), extension and community based educational work, horticulture education, research, greenhouse production, horticultural therapy, etc. For sample career profiles in horticulture, see Career Opportunities (<https://horticulture.wisc.edu/academics/undergraduate-program/research-career-opportunities-3>) on the department website.



## PEOPLE

### PROFESSORS

Bamberg, Colquhoun, Goldman (chair), Havey, Jiang, Krysan, Nienhuis, Palta, Patterson, Simon, Spooner, Yandell

### ASSOCIATE PROFESSORS

Bethke, Jansky, Jull, Weng, Zalapa

### ASSISTANT PROFESSORS

Atucha, Dawson, Endelman

### INSTRUCTIONAL STAFF

Calderon, Nelson, Oosterwyk

## WISCONSIN EXPERIENCE

Students in the horticulture program have some unique opportunities for learning outside the classroom. Our introductory horticulture course, Horticulture 120, is known campus wide for its extensive engagement with service learning. Service learning projects in a variety of settings, where students gain hands-on experiences in community projects, are a core part of student engagement in the horticulture program. Many of our students participate in internships during the summer and even during academic semesters at locations that vary from seed companies to wineries to public gardens. Multiple internship opportunities for horticulture students exist on or near campus at facilities such as the Allen Centennial Garden (<https://allencentennialgarden.org>), the UW Arboretum (<https://arboretum.wisc.edu>), and the Agriculture Research Stations (<http://ars.wisc.edu>).

Horticulture students have a unique opportunity to study tropical horticulture during each fall semester and then travel to Costa Rica and other countries in Central America for a two week intensive field experience during winter break. Spring break opportunities also exist for tropical horticultural experiential learning.

The Department of Horticulture has a very active undergraduate club known as the Horticulture Society (<https://win.wisc.edu/organization/hortsociety>). The mission of the Horticulture Society is to interest and acquaint students in the College with career opportunities and requirements in the field of Horticulture and related fields. They aim to provide opportunities to further this interest through combined effort and achievement; to create awareness and interest in students entering the College with the field of horticulture; to be available to industrious students interested in expanding their knowledge of horticulture; and promote an exchange of ideas and mutual understanding. The Society is made up of undergraduates, some of whom are majoring in Horticulture. A faculty advisor works with the group, and the group meets bi-monthly. The Society travels to horticultural events and meetings, visits botanical gardens and arboreta around the country, has travelled internationally, and runs programming for children at elementary schools and gardens around Wisconsin. The Society runs a large and successful plant sale each fall on campus.

Embedded in the department is the Wisconsin Institute for Sustainable Agriculture (<http://wisa.cals.wisc.edu>), or WISA. WISA's long-term vision is to develop an Institute whose networking with client groups helps develop and share knowledge that promotes a diverse Wisconsin agricultural and food system that is environmentally sound, socially just,

and economically viable. The Institute promotes research, education and outreach programs that are trans-disciplinary and implement a systems approach to the study of food and agricultural production throughout the supply chain. These include development and enhancement of undergraduate and graduate student learning experiences.

## LANDSCAPE ARCHITECTURE

The Department of Landscape Architecture offers two undergraduate programs. One is a professional landscape design and planning program, fully accredited by the American Society of Landscape Architects, and leads to the Bachelor of Science–Landscape Architecture degree (BSLA). The other program introduces the field of landscape studies and leads to a bachelor of science degree with a major in landscape architecture (B.S.).

## DEGREES/MAJORS/CERTIFICATES

- Landscape Architecture, B.S. (p. 145)
- Landscape Architecture, BSLA (p. 149)

## PEOPLE

### PROFESSORS

Harrington, Howell, Silbernagel

### ASSOCIATE PROFESSORS

Bart, Dennis (chair), Gilmore

### ASSISTANT PROFESSOR

Thorleifsdottir

### FACULTY ASSOCIATES

Flohr, Kelly

### SENIOR LECTURERS

Hadley, Steiner

## LANDSCAPE ARCHITECTURE, B.S.

The bachelor of science program with a major in landscape architecture provides students with a solid foundation to pursue careers in landscape planning and conservation. It emphasizes problem-solving skills and critical thinking based on ecological principles, societal needs and cultural foundations. Landscape planning focuses on strategies to integrate human activities with landscape resources in order to achieve healthy living environments through sustainable and livable community development. Landscape conservation is concerned with achieving healthy ecosystems and in cultural and natural resource preservation.

The curriculum includes courses on theory and process and on techniques for data gathering and manipulation with an emphasis on geospatial information systems and interdisciplinary perspectives as well as on ensuring public participation in making planning and conservation decisions.

This major is of particular interest to students interested in ecological restoration and preservation and environmental planning. It prepares

students for graduate work in such fields as restoration ecology, landscape architecture, urban and regional planning, architecture, law, environmental studies, and environmental design.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth)

or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

ENVR ST/GEOG 127 Physical Systems of the Environment is recommended to fulfill the CALs International Studies requirement.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
	MATH 112 Algebra & MATH 113 and Trigonometry	
	MATH 114 Algebra and Trigonometry	
Select one of the following:		3-5
	MATH 211 Calculus	
	MATH 221 Calculus and Analytic Geometry 1	
	STAT 301 Introduction to Statistical Methods	
<b>Biology</b>		
Select one of the following:		5-6
Option 1:		
	BOTANY/ BIOLOGY 130 General Botany	
Option 2:		
	BOTANY 100 Survey of Botany	

And select one of the following:

BOTANY/ F&W ECOL 402	Dendrology
HORT 227	Propagation of Horticultural Plants

or another 2 credits of lab or field-based botany, horticulture, agronomy, or landscape architecture

Select one of the following: 3-4

BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology
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BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
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BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
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#### Core

SOIL SCI 301 or SOIL SCI/ ENVIR ST/ GEOG 230	General Soil Science Soil: Ecosystem and Resource	4
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LAND ARC 250	Survey of Landscape Architecture Design	3
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LAND ARC 201	Introductory Landscape Architecture Studio	2
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LAND ARC 262	Landscape Inventory and Evaluation Methods	4
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LAND ARC 260	History of Landscape Architecture	3
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LAND ARC/ ENVIR ST/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3
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or URB R PL/ LAND ARC 622	Applications of Geographic Information Systems in Planning
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HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
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or ART HIST 457	History of American Vernacular Architecture and Landscapes
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URB R PL/LAND ARC 463	Evolution of American Planning	3
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URB R PL 601	Site Planning	3
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LAND ARC 375	Special Topics (minimum total of 3 cr.)	3
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#### Specialization

Select one of the following: 18-22

Specialization 1: Cultural and Historic Landscapes

Specialization 2: Environmental Planning

Specialization 3: Ecological Restoration

#### Capstone

Select one of the following:

LAND ARC 691 Senior Thesis  
& LAND ARC 692 and Senior Thesis

LAND ARC 699 Special Problems-Landscape Architecture

Total Credits 66-75

Introductory Ecology or BOTANY/F&W ECOL/ZOOLOGY 460 General Ecology, and STAT 301 Introduction to Statistical Methods or equivalent under college and university requirements.

## SPECIALIZATIONS WITHIN THE MAJOR

### SPECIALIZATION 1: CULTURAL AND HISTORIC LANDSCAPES

Code	Title	Credits
LAND ARC 677	Cultural Resource Preservation and Landscape History	3

Select one of the following: 3

FOLKLORE 320 Folklore of Wisconsin

FOLKLORE 439 Foodways

FOLKLORE/  
L I S 490 Field Methods and the Public Presentation of Folklore

FOLKLORE/  
ANTHRO/MUSIC/  
THEATRE 539 The Folklore of Festivals and Celebrations

FOLKLORE 540 Local Culture and Identity in the Upper Midwest

Select one of the following: 3-4

HISTORY 201 The Historian's Craft

or HISTORY 403 Immigration and Assimilation in American History

Select one of the following: 3-4

ANTHRO/AMER  
IND 353 Indians of the Western Great Lakes

ANTHRO/AMER  
IND 354 Archaeology of Wisconsin

ANTHRO/AMER  
IND 431 American Indian Folklore

AMER IND 250 Indians of Wisconsin

AMER IND/LSC  
444 Native American Environmental Issues and the Media

ANTHRO/  
AMER IND/  
BOTANY 474 Ethnobotany

AMER IND/C&E  
SOC/SOC 578 Poverty and Place

Select one of the following: 3

ART HIST/  
ANTHRO/DS 264/  
HISTORY/  
LAND ARC 264 Dimensions of Material Culture

ART HIST 449 Topics in Architectural History

ART HIST 457 History of American Vernacular Architecture and Landscapes

ART HIST/DS 464/  
HISTORY 464 Dimensions of Material Culture

Select one of the following: 3-4

GEOG 301 Geography of Social Organization

GEOG/  
URB R PL 305 Introduction to the City

GEOG/  
ENVIR ST 309 People, Land and Food: Comparative Study of Agriculture Systems

<sup>1</sup> Note: Restoration students are encouraged to select BOTANY/BIOLOGY 130 General Botany, BOTANY/ENVIR ST/ZOOLOGY 260

GEOG 342	Geography of Wisconsin	
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	
GEOG 501	Space and Place: A Geography of Experience	
URB R PL 711	Planning for Food Systems and Marketplaces	
Total Credits		18-21

## SPECIALIZATION 2: ENVIRONMENTAL PLANNING

Code	Title	Credits
ECON 101	Principles of Microeconomics	4
SOC/C&E SOC 210 or SOC/ C&E SOC 211	Survey of Sociology The Sociological Enterprise	3-4
GEOG/URB R PL 305 or URB R PL 590	Introduction to the City Contemporary Topics in Urban and Regional Planning	3-4
C&E SOC/URB R PL 617	Community Development	3
Select one of the following:		3-4
URB R PL/ ENVIR ST 668	Green Politics: Global Experience, American Prospects	
F&W ECOL/ ENVIR ST 515	Natural Resources Policy	
ECON/URB R PL 449	Government and Natural Resources	
Select one of the following:		3-4
REAL EST/URB R PL 306	The Real Estate Process	
REAL EST/URB R PL 420	Urban and Regional Economics	
A A E/ECON/ ENVIR ST 343	Environmental Economics	
Total Credits		19-23

## SPECIALIZATION 3: ECOLOGICAL RESTORATION

Code	Title	Credits
BOTANY 400 or BOTANY 401	Plant Systematics Vascular Flora of Wisconsin	4
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
LAND ARC 353	Landscape Architectural Technology I	3
LAND ARC 666	Restoration Ecology	3
Select one of the following:		3-4
ENVIR ST/ BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	
GEOG/ ENVIR ST 339	Environmental Conservation	
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	

Select one of the following:		2-3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	
LAND ARC/ ENVIR ST 361	Wetlands Ecology	
SOIL SCI/ PL PATH 323	Soil Biology	
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	
LAND ARC 399 or LAND ARC 699	Coordinative Internship/Cooperative Education Special Problems-Landscape Architecture	1-8
Total Credits		20-29

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate social, cultural, ecological and technological dimensions in solving novel problems concerning the conservation or management of sustainable natural and cultural landscapes.
2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.
3. Demonstrate competence and critical judgment in applying the intellectual and technical skills necessary for site and landscape-scale natural and cultural resource conservation planning and management; in particular the skills of: site inventory and analysis, spatial and temporal analysis; geographic information systems; programming; synthesis; communication; implementation; and evaluation.
4. Understand, apply and evaluate the principles, theories and recent research findings underlying at least one of the following fields of landscape studies, in particular cultural and historic landscapes, environmental planning, and ecological restoration.

5. Demonstrate advanced communication skills, including visual, verbal, and written presentation skills.
6. Be able to perform as a member of a public or private natural or cultural resources conservation or preservation office or agency.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE LANDSCAPE ARCHITECTURE FOUR-YEAR PLAN—BACHELOR OF SCIENCE DEGREE

##### Freshman

Fall	Credits Spring	Credits
LAND ARC 201 <sup>1</sup>	2 LAND ARC 262 <sup>1</sup>	4
LAND ARC 250 <sup>1</sup>	3 MATH 113	3
CHEM 108	5 BOTANY/BIOLOGY 130	5
MATH 112	3 COMM A Course	3
First Year Seminar	1 Electives <sup>3</sup>	3
	14	18

Total Credits 32

##### Sophomore

Fall	Credits Spring	Credits
Biological Science Course	5 LAND ARC 260	3
SOIL SCI 301	4 BOTANY/ENVIR ST/ ZOOLOGY 260, 455, or 460	3-4
Electives	6 Math / Statistics Course	3
	Electives	6
	15	15-16

Total Credits 30-31

##### Junior

Fall	Credits Spring	Credits
Landscape Architecture	6 LAND ARC/ENVIR ST/ SOIL SCI 695	3
Core Elective Courses		
Specialization Courses	6 ENVIR ST/GEOG 127	5
Elective Course	3 Specialization Course	3
	Elective Course	4
	15	15

Total Credits 30

##### Senior

Fall	Credits Spring	Credits
LAND ARC 691 (Capstone)	4 Specialization Course	3
Specialization Courses	6 Elective Courses	12
Elective Courses	6	
	16	15

Total Credits 31

<sup>1</sup> Must be taken during semester shown to stay on track.

<sup>2</sup> Electives must be chosen to include completion of UW and CALS requirements. See Requirements tab for details.

## ADVISING AND CAREERS

Students are assigned to a faculty advisor once they declare the major. Prospective students should contact the academic coordinator, Debi Griffin (dagriffin@wisc.edu, 608-263-7301) for more information.

This major is of particular interest to students interested in ecological restoration and preservation and environmental planning. It prepares students for graduate work in such fields as restoration ecology, landscape architecture, urban and regional planning, architecture, law, environmental studies, and environmental design.

## PEOPLE

### PROFESSORS

Harrington, Howell, Silbernagel

### ASSOCIATE PROFESSORS

Bart, Dennis (chair), Gilmore

### ASSISTANT PROFESSOR

Thorleifsdottir

### FACULTY ASSOCIATES

Flohr, Kelly

### SENIOR LECTURERS

Hadley, Steiner

## LANDSCAPE ARCHITECTURE, BSLA

Students who enjoy art, science, technology, problem-solving, and design should consider a career in landscape architecture. Graduates in landscape architecture influence the design and management of cities, parks, and open spaces. They often advise park managers, citizen groups, landowners, and state agencies. Landscape architects design public and private outdoor spaces, restore and help preserve natural areas, develop and implement regional planning and public policy, and revitalize urban neighborhoods. The Professional Landscape Architecture degree program focuses on form-giving design, design implementation, and professional practice. Emphasis is placed on principles of design theory and process; problem solving in relationship to human needs and aspirations, and environmental awareness and stewardship; and on the development of technical proficiencies required of professional practice. Students learn site analysis, graphic communication, design synthesis, construction technology, and planting design.

The Professional Landscape Architecture degree program provides professional education accredited by the American Society of Landscape Architects (ASLA). Completion of this program is the first step in becoming a licensed landscape architect. The program emphasizes the exploration and understanding of design processes and graphic and verbal communication skills. The program also develops a student's sensitivity to natural, physical, historical, and cultural contexts of landscape design.

Students completing the requirements for this program are granted a *Bachelor of Science–Landscape Architecture* degree.

## HOW TO GET IN

All students interested in enrolling in the professional degree program are enrolled as pre-landscape architecture majors. Admission to the professional program is on a competitive basis.

- 1. Admission to the Pre-Landscape Architecture Program.** Applicants must satisfy the admission policies for the college (apply to the UW–Madison Office of Admissions and Recruitment); entering freshmen follow the instructions on the admissions application and list landscape architecture as their intended major. During the first year the student enrolls as a pre-landscape architecture student (PLA–1 classification) and concentrates on the completion of the prerequisite courses and university/college degree requirements.
- 2. Eligibility for Consideration into the Landscape Architecture Accredited Professional Program.** Eligibility for consideration into the Landscape Architecture Accredited Professional Program (landscape architecture degree program) depends on fulfillment of these requirements: students may apply for formal admission to the program during the spring semester of each academic year. Selections are made only once a year for the fall semester. The first round of selections takes place in early summer. All students will be notified of their status at least two weeks before the start of the fall semester. Students who plan to complete their prerequisite courses during the summer session must so indicate on their application. The department will admit up to a maximum of 22 students, as resources permit. Selection will be based on a letter of intent, written by the applicant, which addresses her or his reasons for wanting to enter the major, and on grades earned in the following six prerequisite courses:

Code	Title	Credits
LAND ARC 201	Introductory Landscape Architecture Studio (fall semester)	2
LAND ARC 250	Survey of Landscape Architecture Design (fall semester)	3
LAND ARC 262	Landscape Inventory and Evaluation Methods (spring semester)	4
LAND ARC 312	Graphics for Designers (spring semester)	3
M E 160	Architectural Graphics	3
Select one of the following:		
ART 102	Two-Dimensional Design	3
ART 112	Drawing I	3
DS 120	Design: Fundamentals I	3

**AND** the applicant must have completed at least 24 credit hours. Cumulative GPA will be considered.

**Note:** Application forms for consideration of admission to the Landscape Architecture professional program are available from the Department of Landscape Architecture, 1 Agricultural Hall, 1450 Linden Drive.

- 3. Selection Policies.** On-campus selections for admission will be made as soon as possible after spring semester grades are received. Advanced-standing transfer students and second degree majors must have their final transcripts on file (in Room 116 Agricultural

Hall) as soon as possible after the close of their spring term, but no later than June 15. The department must be notified immediately if a grade report is incorrect, as selections must be made on the basis of information available at the time of selection.

- 4. Notification of Status.** Applicants who have completed their prerequisite courses at the end of spring semester will be notified of their status between June 1 and July 1 of each year for fall semester admission. Decisions on those applicants completing prerequisites during summer session will be made as soon as grades are received. **Note:** Students not selected for admission may enroll for a second time with a pre-landscape architecture classification (PLA–2) and seek admission for the following fall by reapplying during the spring semester. If not selected after a second application, students will need to transfer to another program on the Madison campus or to another institution. Students will not be able to register in pre-landscape architecture for a third year.
- 5. Appeal Procedures.** An appeal to the department's curriculum committee may be presented to clarify an error of fact or extenuating circumstances.
- 6. Reentering Landscape Architecture Students. Note:** Those students who are accepted and enroll in LAND ARC 261 Principles of Landscape Architecture Design and Graphics and drop the course during the fall semester must reapply for admission by April 15 if they wish to be considered for the following fall.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the degree (unless specifically noted otherwise), but courses counted toward the degree requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the degree that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3-5
MATH 211	Calculus	
MATH 221	Calculus and Analytic Geometry 1	

STAT 301	Introduction to Statistical Methods	
<b>Biology</b>		
Select one of the following options:		5-6
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
Option 2:		
BOTANY 100	Survey of Botany	
And select one of the following:		
BOTANY/ F&W ECOL 402	Dendrology	
HORT 227	Propagation of Horticultural Plants	
or another 2 credits of lab or field-based botany, horticulture, agronomy, or landscape architecture		
Select one of the following:		3-4
BOTANY/ ENVR ST/ ZOOLOGY 260	Introductory Ecology	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
<b>Foundation</b>		
<i>Engineering</i>		
BSE 201	Land Surveying Fundamentals	1
Select one of the following (or equivalent):		3-4
LAND ARC/ ENVR ST/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	
GEOG/CIV ENGR/ ENVR ST 377	An Introduction to Geographic Information Systems	
URB R PL 590	Contemporary Topics in Urban and Regional Planning (GIS for Planners)	
<i>Soil Science</i>		
SOIL SCI 301	General Soil Science	4
or SOIL SCI/ ENVR ST/ GEOG 230	Soil: Ecosystem and Resource	
<i>Additional Foundation Courses</i>		
ENVR ST/GEOG 127	Physical Systems of the Environment	5
DS 221	Person and Environment Interactions	3
Select 3 credits from any Art History class designated humanities		3
Select 3 credits from any ANTHRO course, GEOG courses listed below, any HISTORY course, any PHILOS course, any PSYCH course, any SOC course		3
<b>Core</b>		
LAND ARC 260	History of Landscape Architecture	3
LAND ARC 261	Principles of Landscape Architecture Design and Graphics	4
HORT/LAND ARC 263	Landscape Plants I	3

LAND ARC 351	Housing and Urban Design	4
LAND ARC 353	Landscape Architectural Technology I	3
LAND ARC 354	Landscape Architectural Technology II	3
LAND ARC 365	Planting Design I	3
LAND ARC 451	Open Space Planning and Design	3
LAND ARC 462	Regional Design	3
LAND ARC 550	Professional Practice in Landscape Architecture	3
LAND ARC 610	Landscape Architecture Seminar	1-2
Select one of the following:		3-4
GEOG/ URB R PL 305	Introduction to the City	
LAND ARC/ URB R PL 463	Evolution of American Planning	
Select one of the following:		
LAND ARC 375	Special Topics (2–3 credits required)	
LAND ARC 651	Plant Community Restoration and Management Workshop	
LAND ARC 666	Restoration Ecology	
LAND ARC 667	Field Study: Native Plant Communities	
LAND ARC 675	Historic Preservation Planning Field Workshop	
LAND ARC 677	Cultural Resource Preservation and Landscape History	
URB R PL 590	Contemporary Topics in Urban and Regional Planning	
FOLKLORE 439	Foodways	
FOLKLORE/ ANTHRO/MUSIC/ THEATRE 539	The Folklore of Festivals and Celebrations	
<b>Breadth or Depth Requirement</b>		
LAND ARC 321	Environment and Behavior Studio - Designing Health Promoting Environments	3
Select 3 crs from option A, B, or C (see below)		3
<b>Capstone</b>		
LAND ARC 551	Senior Project in Landscape Architecture	4
Total Credits		84-92

## ADDITIONAL FOUNDATION GEOGRAPHY COURSES

Code	Title	Credits
GEOG 101	Introduction to Human Geography	4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4

GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 301	Geography of Social Organization	3
GEOG 302	Economic Geography: Locational Behavior	4
GEOG 318	Introduction to Geopolitics	3
GEOG 319	Environmental Evaluation and Adaptation	3
GEOG 340	World Regions in Global Context	3
GEOG 342	Geography of Wisconsin	3
GEOG 344	The American West	3
GEOG 348	Latin America	4
GEOG 349	Europe	3
GEOG 353	Russia and the NIS-Topical Analysis	3
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3
GEOG 501	Space and Place: A Geography of Experience	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3
GEOG 508	Landscape and Settlement in the North American Past	3
GEOG 510	Economic Geography	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4

## BREADTH OR DEPTH REQUIREMENT

Must complete a professional depth or breadth requirement. Choose option A, B, or C, and select one course from the list of courses provided (Option A has six possible paths).

### OPTION A

Choose one course from one of the following specialty areas:

#### Cultural and Historic Landscapes

Code	Title	Credits
Select one of the following:		
LAND ARC 677	Cultural Resource Preservation and Landscape History	3
FOLKLORE 399	Directed Study in Folklore for Undergraduates	
FOLKLORE/ L I S 490	Field Methods and the Public Presentation of Folklore	
FOLKLORE/ ANTHRO 639	Field School: Ethnography of Wisconsin Festivals	
GEOG 501	Space and Place: A Geography of Experience	



HISTORY/  
ENVIR ST/  
GEOG 460

American Environmental History

HISTORY/  
CHICLA 462

The American West Since 1850

### Land-Use Planning and Sustainable Development

Code	Title	Credits
------	-------	---------

Select one of the following:

C&E SOC/SOC/  
URB R PL 617

Community Development

ENVIR ST/  
F&W ECOL/  
ZOOLOGY 360

Extinction of Species

ENVIR ST/  
SOIL SCI 575

Assessment of Environmental  
Impact

F&W ECOL 375

Special Topics

GEOG/  
ENVIR ST 339

Environmental Conservation

PHILOS/  
ENVIR ST 441

Environmental Ethics

SOC/C&E SOC/  
URB R PL 645

Modern American Communities

SOIL SCI/  
ENVIR ST/  
LAND ARC 695

Applications of Geographic  
Information Systems in Natural  
Resources

URB R PL 590

Contemporary Topics in Urban and  
Regional Planning

or URB R PL 611 Urban Design: Theory and Practice

### Design, Conservation, Management: Native Plant Communities

Code	Title	Credits
------	-------	---------

Select one of the following:

BOTANY/  
AGRONOMY/  
SOIL SCI 370

Grassland Ecology

BOTANY 400

Plant Systematics

BOTANY 401

Vascular Flora of Wisconsin

BOTANY/  
F&W ECOL 402

Dendrology

BOTANY 403

Field Collections and Identification

BOTANY/  
ZOOLOGY 450

Midwestern Ecological Issues: A  
Case Study Approach

BOTANY/  
F&W ECOL 455

The Vegetation of Wisconsin

BOTANY/  
ZOOLOGY 459

Ecological Techniques for Field  
Monitoring

BOTANY 575

Special Topics

BOTANY/  
LAND ARC 670

Adaptive Restoration Lab

ENTOM/BOTANY/  
ZOOLOGY 473

Plant-Insect Interactions

LAND ARC/  
ENVIR ST 361

Wetlands Ecology

LAND ARC 651

Plant Community Restoration and  
Management Workshop

LAND ARC 666

Restoration Ecology

LAND ARC 667

Field Study: Native Plant  
Communities

SOIL SCI/  
PL PATH 323

Soil Biology

### Ornamental Plants and Landscape Maintenance

Code	Title	Credits
------	-------	---------

Select one of the following:

AGRONOMY/  
HORT 328

Integrated Weed Management

HORT 227

Propagation of Horticultural Plants

HORT/  
PL PATH 261

Sustainable Turfgrass Use and  
Management

HORT/F&W ECOL/  
LAND ARC/  
PL PATH 309

Diseases of Trees and Shrubs

HORT 320

Environment of Horticultural Plants

HORT/  
AGRONOMY/  
SOIL SCI 326

Plant Nutrition Management

HORT/  
SOIL SCI 332

Turfgrass Nutrient and Water  
Management

### Site Inventory Analysis

Code	Title	Credits
------	-------	---------

Select one of the following:

ENVIR ST 375

Field Ecology Workshop

ENVIR ST/  
SOIL SCI 575

Assessment of Environmental  
Impact

GEOG/  
ENVIR ST 325

Analysis of the Physical  
Environment

### Design and Artistic Expression

Code	Title	Credits
------	-------	---------

Select one of the following:

ART 214

Sculpture I

ART 328

The Computer in the Visual Arts

ART 428

Digital Imaging Studio

ART 608

Interdisciplinary Critique in the  
Visual Arts

ART HIST 208

Western Architecture: Renaissance  
to Modern

ART HIST 468

Frank Lloyd Wright

DS 220

Design: Fundamentals II

DS 320

Design: Sketching and Rendering

DS 323

Computer Aided Design:  
Architecture and Interiors

### OPTION B: SECOND MAJOR OR CERTIFICATE IN A RELATED FIELD

A student who is pursuing a double major or a certificate in a related field (horticulture, art history, art business, etc.) has the option to use the completion of the second major or certificate to fulfill the landscape architecture breadth or depth requirement.

## OPTION C: ADVISOR-APPROVED BREADTH OR DEPTH AREA

In special circumstances students may request a substitution for the additional breadth/depth course. The course may come from any department but must relate to some aspect of the profession. The course must be approved by the student's advisor and by the Landscape Architecture Curriculum Committee. Students must provide an explanation of why they want to make the substitution.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Integrate social, cultural, ecological and technological dimensions in solving novel design and planning problems concerning the betterment of rural and urban natural and cultural landscapes.
2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.
3. Demonstrate competence, creativity, and critical judgment in applying the intellectual and technical skills necessary to the professional practice of landscape architecture; in particular the skills of problem-solving surrounding spatial, three-dimensional design of outdoor spaces, including, in particular: site inventory and analysis; community participation; programming; synthesis; communication; implementation; evaluation; and management.
4. Apply and evaluate the components of a professional curriculum as defined by the Landscape Architecture Accreditation Board, the accrediting organization for landscape architecture programs.
5. Understand, apply and evaluate the principles, theories and recent research findings in the field of landscape architecture.
6. Demonstrate advanced communication skills, including graphic, verbal, and written presentation skills.
7. Be able to perform as an entry-level landscape architect in a public or private office or agency setting.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE LANDSCAPE ARCHITECTURE FOUR-YEAR PLAN—PROFESSIONAL DEGREE

##### Freshman

Fall	Credits Spring	Credits
LAND ARC 250 <sup>1</sup>	3 LAND ARC 312 <sup>1</sup>	3
LAND ARC 201 <sup>1</sup>	2 LAND ARC 262 <sup>1</sup>	4
M E 160 <sup>2</sup>	3 DS 120, ART 102, or ART 112 <sup>2</sup>	3
GEOG/ENVIR ST 127	5 BOTANY/BIOLOGY 130 or 100	3-5
MATH 112 <sup>1</sup>	3 MATH 113 <sup>2</sup>	3
First Year Seminar	1	
	17	16-18

Total Credits 33-35

##### Sophomore

Fall	Credits Spring	Credits
LAND ARC 261 <sup>1</sup>	4 LAND ARC 353 <sup>1</sup>	3
HORT/LAND ARC 263 <sup>1</sup>	3 LAND ARC 260	3
DS 221 <sup>2</sup>	3 SOIL SCI 301 <sup>2</sup>	4
BSE 201 <sup>1</sup>	1 CHEM 108 or 103 <sup>4</sup>	5
COMM A Course	3 LAND ARC 321 or 375	3
	14	18

Total Credits 32

##### Junior

Fall	Credits Spring	Credits
LAND ARC 365 <sup>1</sup>	3 LAND ARC 351 <sup>1</sup>	4
LAND ARC 354 <sup>1</sup>	3 LAND ARC 451 <sup>1</sup>	3
MATH 211 or STAT 301	3 LAND ARC/ENVIR ST/ SOIL SCI 695, GEOG 377, or URB R PL 590	3
GEOG/URB R PL 305	3 Professional Breadth Course	3
Art History Elective	3 Social Science Elective Course	3
BOTANY/ENVIR ST/ ZOOLOGY 260 <sup>2</sup>	3	
	18	16

Total Credits 34

##### Senior

Fall	Credits Spring	Credits
LAND ARC 610 (Capstone 1) <sup>1</sup>	2 LAND ARC 551 (Capstone 2) <sup>1,6</sup>	4
LAND ARC 550 <sup>1</sup>	3 Professional Breadth / Depth Course	3
LAND ARC 462 (Lab or Field)	3 Elective	3

Botany / Horticulture / Agronomy Course <sup>5</sup>	2 Ethnic Studies Course	3
Elective	3	
	13	13

Total Credits 26

- <sup>1</sup> Must be taken in semester shown to stay on track
- <sup>2</sup> Must be taken during year shown to stay on track
- <sup>3</sup> If taking BOTANY 100 Survey of Botany, a 2-credit lab or field course in botany, horticulture, or agronomy must also be taken prior to graduation.
- <sup>4</sup> Consult advisor about options for completing the chemistry requirement
- <sup>5</sup> Required if students take BOTANY 100 Survey of Botany
- <sup>6</sup> Also counts as COMM-B

## ADVISING AND CAREERS

Students are assigned to a faculty advisor once they declare the major. Prospective students should contact the academic coordinator, Debi Griffin (dagriffin@wisc.edu, 608-263-7301) for more information.

The Professional Landscape Architecture degree program provides professional education accredited by the American Society of Landscape Architects (ASLA). Completion of this program is the first step in becoming a licensed landscape architect.

## PEOPLE

### PROFESSORS

Harrington, Howell, Silbernagel

### ASSOCIATE PROFESSORS

Bart, Dennis (chair), Gilmore

### ASSISTANT PROFESSOR

Thorleifsdottir

### FACULTY ASSOCIATES

Flohr, Kelly

### SENIOR LECTURERS

Hadley, Steiner

## LIFE SCIENCES COMMUNICATION

The Department of Life Sciences Communication (LSC) prepares students for careers as professional communicators in scientific and technical fields or for graduate school. Scientific areas of expertise include the environment and natural resources, health and nutrition, agriculture, new technologies such as biotechnology, and social sciences. LSC became the first department of what was then termed Agricultural Journalism in the world and has retained its leadership position in science communication ever since.

Graduates of the program are highly sought after by employers across scientific and communication industries. Key to the education that LSC

students receive is a combination of theoretical grounding and state-of-the-art practical applications. Our instructors are a mix of world-class researchers and real-world practitioners of regional or national profiles.

Students receive instruction across multimedia channels such as print, audio, video and web. They learn to target and create communications for both news and marketing. Most important, they learn to plan strategically and implement the most effective communications for diverse audiences.

Students complete an undergraduate major in life sciences communication under the bachelor of science degree program. Students in this program have the flexibility to explore science, environmental and health communication, agricultural business, industry, social marketing, or the international context.

College regulations permit a student to major simultaneously in life sciences communication while pursuing another major in a different department. This provides a student with strong communication skills and solid grounding in another subject matter area. Nonmajors will also benefit from taking communication courses.

## DEGREES/MAJORS/CERTIFICATES

- Life Sciences Communication, B.S. (p. 155)

## PEOPLE

### PROFESSORS

Brossard (chair), Loew, Reaves, Scheufele, Shepard

### ASSOCIATE PROFESSOR

Shaw

### FACULTY ASSOCIATES

Botham, Stanley

### LECTURERS

Flaherty, Runge, Seely, Smith, Still

## LIFE SCIENCES COMMUNICATION, B.S.

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Graduates of the program are highly sought after by employers across scientific and communication industries. Key to the education that LSC students receive is a combination of theoretical grounding and state-of-the-art practical applications. Our instructors are a mix of world-class researchers and real-world practitioners of regional or national profiles.

Students receive instruction across multimedia platforms such as print, audio, video and web. They are taught how to target and create

communications for both news and marketing. Most important, they learn how to plan strategically and implement the most effective communications for diverse audiences.

Students complete an undergraduate major in life sciences communication under the Bachelor of Science degree program. Students in this program have the flexibility to explore science, environmental and health communication; agricultural business; industry; social marketing; or the international context.

College regulations permit a student to major simultaneously in life sciences communication while pursuing another major in a different department. This provides a student with strong communication skills and solid grounding in another subject matter area. Nonmajors will also benefit from taking communication skills courses.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. Students must have a minimum of 15 credits within the LSC major that do not double count with CALs or university "general education" requirements.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
	Select one of the following (or placement exam recommended to fulfill the CALs Quantitative Reasoning Part A requirement):	3-5
	MATH 112 Algebra or MATH 114 Algebra and Trigonometry	
	Select one of the following (recommended to fulfill the CALs Quantitative Reasoning Part B requirement):	3-4

STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
C&E SOC/ SOC 360	Statistics for Sociologists I	
<b>Foundation Course</b>		
LSC 111	Science and Technology Newswriting	3
or LSC 212	Introduction to Scientific Communication	
<b>Core</b>		
LSC 250	Research Methods in the Communication Industry	3
LSC 251	Science, Media and Society	3
Select two of the following:		6
LSC 270	Communication in Life Science Industries	
LSC 314	Introduction to Digital Video Production	
LSC 320	Feature Writing	
LSC 332	Print and Electronic Media Design	
LSC 350	Visualizing Science and Technology	
LSC 360	Information Radio	
<b>Concentration within the Major</b>		
Select 6 credits from one of the following concentrations:		6
Communication Strategy		
Communication Skills and Technologies		
<b>Capstone</b>		
LSC 515	Public Information Campaigns and Programs	3
or LSC 640	Case Studies in the Communication of Science and Technology	

Total Credits 30-33

## CONCENTRATIONS WITHIN THE MAJOR COMMUNICATION STRATEGY

Communication Strategy Concentration: focuses on the skills and theory necessary to effectively communicate with audiences in the life sciences context, while satisfying the long terms strategic goals of an organization; it includes courses in advertising, social marketing, and risk communication.

Code	Title	Credits
Select two of the following:		6
LSC 431	Advertising in the Life Sciences	
LSC 432	Social Media for the Life Sciences	
LSC 435	Theory and Practice of Integrated Marketing Communication	
LSC 440	Contemporary Communication Technologies and Their Social Effects	
LSC/ AMER IND 444	Native American Environmental Issues and the Media	
LSC/COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth	

LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age
LSC 625	Risk Communication
LSC 660	Data Analysis in Communications Research

## COMMUNICATION SKILLS AND TECHNOLOGIES

Communication Skills and Technology Concentration: focuses on the skills required to translate organized information into informative and persuasive messages for a variety of media, such as newswriting, documentary photography, publications editing, web design and video production.

Code	Title	Credits
Select two of the following:		6
LSC 430	Communicating Science with Narrative	
LSC 432	Social Media for the Life Sciences	
LSC 450	Documentary Photography for the Sciences	
LSC 505	Publications Editing	
LSC 532	Web Design for the Sciences	
LSC 614	Advanced Video Production	

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Specialized knowledge in theoretical and applied communication of science and technology, along with an education broad enough to meet the challenges of changing careers and opportunities.
2. The ability to think critically and creatively: to synthesize, analyze, and integrate ideas for decision making and problem solving.
3. The ability to communicate effectively across media and a broad range of audiences.
4. A global perspective; an appreciation for the interdependencies among individuals and their workplaces, communities, environments,

and world; and an understanding of the interrelationships between science and society.

- The ability to work with others in small or large groups, to recognize civic and social responsibilities, and to appreciate the uses of public policy in a democracy.
- A respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE LIFE SCIENCES COMMUNICATION FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
MATH 112 <sup>1</sup>	3 LSC 111 or 212	3
COMM A Course	3 Chemistry	4-5
Humanities Elective	3 Humanities Elective	3
Electives	6 Social Sciences Elective	3
	First-Year Seminar	1
15		14-15

##### Sophomore

Fall	Credits Spring	Credits
LSC 250	3 LSC 251	3
LSC Elective	3 LSC Elective	3
Math or Statistics	3-5 Ethnic Studies	3
Electives	6 Science Elective	3
	Elective	3
15-17		15

##### Junior

Fall	Credits Spring	Credits
Comm-B	3 Concentration Course	3
Biological Science Elective	5 Electives	12
Electives	6-7	
14-15		15

##### Senior

Fall	Credits Spring	Credits
International Studies	3 Concentration Course	3
Electives	9 Electives	12
Select one capstone course:	3	
LSC 515		
LSC 640		
15		15

Total Credits 118-122

<sup>1</sup> Or consider:  
 COMM A, 3 cr  
 Algebra and Trigonometry (MATH 114, 5 cr)  
 HUMANITIES ELECTIVE, 3 cr  
 ELECTIVES, 3 cr  
 FIRST-YEAR SEMINAR, 1

For a total of 15 cr

## ADVISING AND CAREERS

Current or prospective students should contact the advisor, Tera Holtz (tholtz@wisc.edu), with questions. Declared majors are required to meet with the advisor at least once per semester prior to registration.

Our graduates get jobs as reporters, editors, advertising and marketing professionals, technical writers, broadcast producers, and public information staff at universities, and in many other science- and agriculture-related industries. Some work for specialized publications. Others work for print, online or broadcast media reporting on science, health, agriculture, or the environment. Many have careers with advertising agencies and public relations firms handling accounts for food, biotechnology, or related industries. Still others work with companies, cooperatives, government agencies, and universities.

## PEOPLE

### PROFESSORS

Brossard (chair), Loew, Reaves, Scheufele, Shepard

### ASSOCIATE PROFESSOR

Shaw

### FACULTY ASSOCIATES

Botham, Stanley

### LECTURERS

Flaherty, Runge, Seely, Smith, Still

## NUTRITIONAL SCIENCES

Nutritional sciences is an independent discipline rooted in biology and biochemistry. The major integrates the study of nutrition with studies of the role of diet in health and disease, and with studies of the biological, genetic, social, and economic factors influencing the diet and nutritional status of humans. Nutritional sciences combines the basic and applied sciences that address issues relevant to agriculture and medicine. The Department of Nutritional Sciences offers two areas of study, both of which require a core of courses that emphasize the chemistry and physiology of nutrition. Additional courses focus on the biochemical, clinical, business, or public health aspects of nutrition. Students who complete the nutritional sciences major in the dietetics degree program receive the bachelor of science–dietetics degree, and students who complete the nutritional sciences major in the bachelor of science degree program receive the bachelor of science degree.

Students who wish to gain practical experience are encouraged to participate in independent studies and coordinative internships, as well as laboratory and clinical research projects offered through the department, the Waisman Center and Interdepartmental Graduate Program in Nutritional Sciences. In addition to the financial support offered by these opportunities, the department annually awards a number of scholarships. All students are also encouraged to apply for scholarships awarded by the College of Agricultural and Life Sciences and UW–Madison.

The department also serves as the administrative home for the popular undergraduate certificate in global health. The certificate is open to all undergraduate UW–Madison students and complements a variety of majors.

## DEGREES/MAJORS/CERTIFICATES

- Global Health, Certificate (p. 159)
- Nutritional Sciences, B.S. (p. 164)
- Nutritional Sciences, B.S. Dietetics (p. 168)

## PEOPLE

### PROFESSORS

Eide (chair), Eisenstein, Groblewski, Lai, Ney, Ntambi, Smith, Sunde, Tanumihardjo

### ASSOCIATE PROFESSOR

Olson

### ASSISTANT PROFESSORS

Parks, Yen

### DISTINGUISHED FACULTY ASSOCIATE

Karls

### FACULTY ASSOCIATE

Thurlow

### ASSISTANT FACULTY ASSOCIATE

Schuchardt

### SENIOR LECTURER

Anderson

## GLOBAL HEALTH, CERTIFICATE

The undergraduate certificate in global health is a 15-credit program open to all undergraduate students at the University of Wisconsin–Madison.

All students, especially those who identify as pre-health, are familiar with the concept of health care, the idea of preventing and treating mental and physical health conditions in individuals. The certificate's coursework discusses medicine and particularly the need to improve access to care for all, but it also introduces students to the field of public health, a model for promoting health and well-being that seeks to identify and address the root causes of health problems for populations rather than for individuals.

Public health practitioners focus on preventive, population-level approaches to health promotion. For example, public health work related to substance abuse among UW–Madison students involves education and outreach to high-risk groups as well as facilitating access to treatment. Other public health researchers, government officials, nonprofit staff, and community leaders might work with entire rural communities in a developing country to improve access to clean water, or work on a global scale to try to reduce migration driven by climate change-related declines in food production.

Solutions to public health problems require expertise from many disciplines and the certificate welcomes both pre-health science students and diverse other students who are passionate about improving the well-being of humans, non-human animals, and the environment through changes in politics, economics, culture, and society in general.

Certificate students must complete credit-bearing field work but may or may not actually go abroad to do it—the "global" in "global health" refers both to our desire to achieve equity in health for all people worldwide and to the goal of studying and finding solutions to health issues that cross both geographic and socioeconomic boundaries. There are large differences or "disparities" in health and well-being between different populations in Madison and across the United States such that many students choose to study a health problem locally and make connections to the handling of the same problem in other populations and places.

The certificate is administered by the College of Agricultural and Life Sciences (CALS) and the Global Health Institute (GHI) in partnership with faculty and staff across campus.

Learn more about the program on its website (<http://ghi.wisc.edu/education/undergraduate-certificate>).

## HOW TO GET IN

Undergraduate students from all majors on campus are encouraged to consider completing the certificate in global health.

Students may declare after completing any one of the program's three core courses. While the admission to the certificate is not competitive, students should be aware that enrollment in the core courses occurs on a first-come, first-served basis. Information about declaring the certificate can be found on the program website (<http://ghi.wisc.edu/education/undergraduate-certificate/completing>).

There is no guarantee that all interested students will be able to complete the certificate, but completion is most likely for students who take the program's core courses as early as possible.

## ENROLLMENT IN CERTIFICATE COURSES

While interested students would ideally take at least one of the certificate's core courses as freshmen or sophomores, many students do not get into these courses until their junior or senior years. This can make planning difficult—ideal and actual scheduling options are presented below. In theory, students can complete the program's requirements in any order, but there are two important things to keep in mind:

- Many field experience options have a core course as a prerequisite.
- Whenever students are finished with the requirements of the degree/major(s), they may not extend time on campus just to complete the certificate.

The ideal timing for the program's requirements is as follows:

- *NUTR SCI/AGRONOMY/ENTOM 203 Introduction to Global Health*—take fall of the freshman or sophomore year
- POP HLTH 370 Introduction to Public Health: Local to Global Perspectives and/or MED HIST/ENVIR ST 213 Global Environmental Health: An Interdisciplinary Introduction—take any spring from sophomore to senior year
- *two or three elective courses*—choose and complete these any time after taking one of the three core courses

- 1–3 credits of field experience—summer between junior and senior years or six months on either side of that summer

A more common timing for the program's requirements is as follows:

- NUTR SCI/AGRONOMY/ENTOM 203 Introduction to Global Health—take fall of the junior or senior year or (when offered in a special section for juniors and seniors only) spring of one of those years
- POP HLTH 370 Introduction to Public Health: Local to Global Perspectives and/or MED HIST/ENVIR ST 213 Global Environmental Health: An Interdisciplinary Introduction—take spring of the junior or senior year
- two or three elective courses—complete at least one or two of these before getting into core courses, potentially choosing courses that meet your major and/or general education requirements.
- 1–3 credits of field experience—summer between junior and senior years or six months on either side of that summer

## REQUIREMENTS

Code	Title	Credits
<b>Core Courses</b>		
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
MED HIST/ ENVIR ST 213 or POP HLTH 370	Global Environmental Health: An Interdisciplinary Introduction <sup>1</sup> Introduction to Public Health: Local to Global Perspectives	3
<b>Field Experience</b>		
Field experiences range in length from one week to one year and typically carry from one to four credits. The field experience can be completed in the US or abroad but must be completed for credit and must be approved by certificate staff. Some experiences are "preapproved" while others such as internships must be submitted for approval. Volunteering that includes clinical work is strongly discouraged and is not accepted as field experience. See the program's field experience web page and handbook for more details.		1-4
<b>Electives</b>		
Select from electives list (see below) to reach a minimum of 15 credits total for the certificate. <sup>2</sup>		6-8

<sup>1</sup> Completing both of these courses is encouraged, and students who do so can count one as an elective.

<sup>2</sup> The certificate does not support tracks or specialties but students may choose to concentrate their electives in one or more functional areas (topics of study covered in graduate programs in public health and related fields). Note that many courses span multiple functional areas but are only listed once. Some courses listed here are "special topics" courses. These are courses whose topic changes from semester to semester and even between sections in the same semester. Sections of these courses accepted by the certificate are shown in parentheses (like this). Use of approved sections to meet the certificate's electives requirement is fine but requires manual modification of a student's degree audit, typically during the student's last term on campus.

## GLOBAL HEALTH ELECTIVES GROUPED BY FUNCTIONAL AREA <sup>1</sup>

Code	Title	Credits
<i>Agronomy/Horticulture/Plant Breeding</i>		
AGRONOMY 377	Cropping Systems of the Tropics	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3
BOTANY 240	Plants and Humans	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
HORT 350	Plants and Human Wellbeing	2
HORT 370	World Vegetable Crops	3
<i>Animal Science/Dairy Science</i>		
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	1
<i>Community Health</i>		
C&E SOC/SOC 532	Health Care Issues for Individuals, Families and Society	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
<i>Environmental Health/Environmental Science/Environmental Economics</i>		
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
CIV ENGR 422	Elements of Public Health Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
<i>Epidemiology</i>		
ENTOM/ ZOOLOGY 371	Medical Entomology	3
<i>Exercise Science</i>		
KINES 353	Health and Physical Education in a Multicultural Society	2
KINES 355	Socio-Cultural Aspects of Physical Activity	3
<i>Health Economics/Health Finance</i>		



ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4	NUTR SCI 132	Nutrition Today (Students may count 132 OR 332, but not both)	3
<i>Health Education/Behavioral Sciences</i>			NUTR SCI 332	Human Nutritional Needs (Students may count 332 OR 132, but not both)	3
ED POL 150	Education and Public Policy (Sexuality and Education; Education and Global Change) <sup>2</sup>	3	NUTR SCI/ BIOCHEM 510	Biochemical Principles of Human and Animal Nutrition	3
ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3	PL PATH 311	Global Food Security	3
<i>Health Policy</i>			<i>Parasitology</i>		
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
POLI SCI 507	Health Policy and Health Politics	3-4	<i>Population Sciences</i>		
SOC WORK 206	Introduction to Social Policy	4	POP HLTH/C&E SOC/ SOC 380	Contemporary Population Problems for Honors	3
<i>Health Promotion and Communications</i>			SOC 170	Population Problems	3-4
COM ARTS/JOURN/ LSC 617	Health Communication in the Information Age	3	<i>Poverty and Development</i>		
LSC 515	Public Information Campaigns and Programs	3	A A E/INTL ST 373	Globalization, Poverty and Development	3
<i>Infectious Diseases</i>			A A E/ECON 474	Economic Problems of Developing Areas	3
M M & I 301	Pathogenic Bacteriology	2	A A E/ECON 477	Agricultural and Economic Development in Africa	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2	C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
M M & I 555	Vaccines: Practical Issues for a Global Society	3	C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
PATH/PATH-BIO 210	HIV: Sex, Society and Science	3	C&E SOC/AMER IND/ SOC 578	Poverty and Place	3
PATH 404	Pathophysiologic Principles of Human Diseases	3	C&E SOC/SOC 630	Sociology of Developing Societies/ Third World	3
POP HLTH/ M M & I 603	Clinical and Public Health Microbiology	5	ECON 448	Human Resources and Economic Growth	3-4
<i>Maternal and Child Health</i>			HDFS/CNSR SCI 465	Families & Poverty	3
SOC WORK 646	Child Abuse and Neglect	2-3	INTL ST 101	Introduction to International Studies	3-4
<i>Microenterprise/Microlending</i>			INTL ST 402	Topics in Politics and Policy in the Global Economy (Global Poverty and Inequality)	3-4
DS 501	Special Topics (Design Thinking for Health; Global Artisans: Pragmatic Design) <sup>2</sup>	1-3	<i>Public Health Ethics</i>		
<i>Minority Health and Health Disparities</i>			MED HIST/ PHILOS 505	Justice and Health Care	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	MED HIST/ PHILOS 515	Public Health Ethics	3
AMER IND 450	Issues in American Indian Studies (Dangerous Memories) <sup>2</sup>	3	MED HIST 559	Topics in Ethics and History of Medicine (Climate Change Ethics) <sup>2</sup>	3
ASIAN AM 240	Topics in Asian American Studies (Hmong American Experiences in the US) <sup>2</sup>	3	<i>Public Health Leadership</i>		
RP & SE 660	Special Topics (Health Promotion for Disabilities and Chronic Illness) <sup>2</sup>	1-6	POP HLTH 504	Health Care Quality Improvement in Low Resource Settings	1
<i>Multicultural Studies</i>			SOC WORK 659	International Aspects of Social Work (Check with global health advisors to see which sections are acceptable in any given term) <sup>2</sup>	2-3
ANTHRO 104	Cultural Anthropology and Human Diversity	3	<i>Public Health Medicine</i>		
ANTHRO 365	Medical Anthropology	3	INTER-AG/INTER- LS 152	Ways of Knowing: Medicine and Society	1
<i>Nutrition/Public Health Nutrition</i>					
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3			
C&E SOC/SOC 222	Food, Culture, and Society	3			

MED HIST/ HIST SCI 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	3	F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
MED HIST 286	Honors Seminar: Studies in Medical History (History of Global Disease Eradication) <sup>2</sup>	3	F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
NURSING 419	Clinical III: Community Health Nursing Practicum (For nursing students, 419 can count for the certificate as either an elective, a field experience, or both, depending on where the credit is needed. )	4	<i>Veterinary Public Health</i>		
NURSING 590	Contemporary Practices in Nursing (Nursing Leadership in Global Health Settings; Obesity Causes, Conseq & Cures) <sup>2</sup>	1-4	F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
PHM SCI 310	Drugs and Their Actions	2	<i>Women's Health</i>		
PHM PRAC 305	Consumer Self-Care and Over-the- Counter Drugs	2	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
THER SCI/NURSING/ S&A PHM/ SOC WORK 105	Health Care Systems: Interdisciplinary Approach	2	GEN&WS 103	Women and Their Bodies in Health and Disease	3
<i>Public Health Practice</i>			GEN&WS 424	Women's International Human Rights	3
MED HIST/ HIST SCI 509	The Development of Public Health in America	3	GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
MED HIST/HIST SCI/ POP HLTH 553	International Health and Global Society	3	GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
POP HLTH 650	Special Topics (These are typically graduate-only sections; interested students should contact the instructor of the section into which they would like to enroll for possible permission; past accepted sections include Community Health in Conflict Situations; The Public Health Laboratory; Introduction to Infectious Disease; Healthcare Quality Improvement and Innovation) <sup>2</sup>	1-6	<b>Footnotes related to electives</b>		
<i>Social Determinants of Health</i>			1 "Functional areas"/topics for study commonly used in graduate programs in public health and related fields:		
HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3	<ul style="list-style-type: none"> <li>• <b>Aging</b>—Focuses on solutions to aging-related challenges, promoting healthy aging, longevity and disability prevention, and the relationship between health risk factors and aging.</li> <li>• <b>Agronomy/Horticulture/Plant Breeding</b>—The management of crops, soils, fertilizers, water, and other agricultural inputs and the assessment of the degree to which different practices meet goals for productivity, efficiency, human and animal nutrition, and environmental impact.</li> <li>• <b>Animal Science/Dairy Science</b>—Study of the management of domesticated animals, including assessment of the degree to which different practices meet goals for productivity, efficiency, humane treatment, and environmental impact</li> <li>• <b>Biomedical Lab Sciences</b>—Focuses on laboratory techniques in areas such as microbiology, immunology, virology, molecular biology, as applied to research on public health issues.</li> <li>• <b>Biostatistics</b>—Study of theories and techniques for collecting, analyzing, and interpreting quantitative data relevant to public health issues.</li> <li>• <b>Chronic Disease</b>—Focuses on the etiology and prevention of chronic disease, while addressing interventions such as policy change, education, and various services to reduce chronic disease morbidity and mortality at the level of community and individual behavior.</li> <li>• <b>Clinical Research</b>—Use of statistical methods in the design and execution of studies involving a person or group of persons and addressing public health problems.</li> <li>• <b>Communication Sciences and Disorders</b>—Focuses on the practice of public health as applied to disorders of speech production/perception, hearing, and language organization.</li> <li>• <b>Community Health</b>—Focuses on work with defined communities to identify and resolve public health problems and to promote well-being.</li> <li>• <b>Dental Public Health</b>—The science of preventing dental diseases and promoting dental health on a community basis, including dental education of the public, applied dental research, and administration of group dental care programs.</li> <li>• <b>Environmental Health/Environmental Science/Environmental Economics</b>—Study of assessment, control, prevention, and cost implications of factors in the environment that can adversely affect the health of present and future generations.</li> <li>• <b>Epidemiology</b>—Application of the scientific method to the study of disease in populations for the purpose of prevention and control.</li> </ul>		
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3			
RELIG ST 101	Religion in Global Perspective	3			
RELIG ST 102	Exploring Religion in Sickness and Health	3			
S&A PHM 490	Selected Topics in Social and Administrative Pharmacy (Health Equity and Social Justice) <sup>2</sup>	1-4			
SOC 531	Sociology of Medicine	3			
<i>Toxicology</i>					
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1			

- **Exercise Science**—The theory-based, research-led study of the impact of physical exercise on the body and health.
  - **Food Safety**—Focuses on identification and decreasing the risk to the public from foodborne illness by surveillance, monitoring occurrences of bacterial pathogens, and response to public complaints.
  - **Genetics**—Explores the impact of genes on public health and disease prevention, including how genes and the environment interact to affect distribution of disease in human populations.
  - **Health Administration**—Study of the skills, values, and conceptual abilities needed for management roles in health care, health policy, and public health.
  - **Health Economics/Health Finance**—Study of the composition, use, and impact of finances that fund all components of the public health system. This includes the pricing, production, and distribution of health services.
  - **Health Education/Behavioral Sciences**—Interdisciplinary study focusing on how health education can affect behavior and lifestyle decisions that have an impact on public health.
  - **Health Law**—The impact of law on the furnishing and administration of health services, and study of legal structures that define government's authority in the interest of public health.
  - **Health Promotion and Communications**—Organized response to promote health and prevent illness, injury, and disability using communication mediums.
  - **Health Services Research**—Research on the cost, access, and quality of the health care system, and on policy issues affecting the organization, financing, and delivery of health care services.
  - **Immunology**—The relationship between body systems, pathogens, and immunity, the development and function of immune cells, and the mechanisms of disease and immunology.
  - **Infectious Diseases**—Study of illnesses resulting from the transmission of microbial agents through diverse pathogens, disease surveillance, outbreak investigation, and the prevention of infectious diseases.
  - **Informatics**—Interdisciplinary science dealing with the structure, acquisition, and use of biomedical information, ranging from theoretical model contraction to building and evaluating applied systems.
  - **Injury/Violence**—The study of the epidemiology, risk factors, and effective prevention strategies for unintentional and violence-related injury.
  - **Management and Health Policy**—Study of legislative, administrative, and budget systems affecting health services, competencies associated with health care management, and the role of leadership in public health.
  - **Maternal and Child Health**—Focuses on the improvement of public health delivery systems for women, children, and their families through advocacy, education, and research.
  - **Mental Health**—Emphasizes early intervention, prevention of mental illness, and promotion of mental health through public health education.
  - **Microenterprise and Microlending**—Focuses on the development of small businesses using small amounts of credit, often but not always in developing country settings. Explores the impact of small businesses on individual, family, and community health and well-being.
  - **Minority Health and Health Disparities**—Addresses factors causing gaps in quality of health care across social, ethnic, sexual orientation, and socioeconomic groups.
  - **Multicultural Studies**—Focuses on the impact of social identities in determining behavior during illness and decisions regarding care, and the importance of understanding basic attitudes of a cultural group for successful health promotion and prevention programs.
  - **Neuroscience**—An interdisciplinary field which may include research in areas such as molecular neuroscience, neurophysiology, and computational modeling, with applications for vaccine development, response to bioterrorism attacks, and control or prevention of diseases such as Alzheimer's and Parkinson's.
  - **Nutrition/Public Health Nutrition**—Focuses on the improvement of the nutritional health of the whole population and vulnerable subgroups within the population, and emphasizes health promotion and disease prevention.
  - **Occupational Health/Industrial Hygiene**—Focuses on the anticipation, recognition, evaluation, communication, prevention, and control of environmental stressors in the workplace that may result in injury, illness or impairment, or affect the wellbeing of the community.
  - **Parasitology**—Study of human parasites and of public health measures that contribute to the prevention and control of diseases caused by parasites.
  - **Population and Reproductive Health**—Factors influencing human reproductive health and dynamics of population growth with the goal of avoiding disease and disability related to sexuality and reproduction.
  - **Population Sciences**—Study of the science of demography and health implications of major population issues, including population size, composition, distribution, and change.
  - **Poverty and Development**—Involves exploration of the relative availability of resources and services between different populations and geographic areas.
  - **Preparedness Response and Recovery**—Focuses on the public health infrastructure needed to monitor the environment, assess needs of vulnerable populations, and allocate resources in times of community emergency.
  - **Public Health Ethics**—Involves a systematic process to clarify, prioritize, and justify possible courses of public health action based on ethical principles, values and beliefs of stakeholders, and scientific and other information. Public ethics is a field of study that seeks to clarify principles guiding actions, and a field of practice that applies relevant principles and values to decision making.
  - **Public Health Leadership**—Prepares public health practitioners with knowledge and skills needed to mobilize, coordinate, and direct broad collaborative actions within the complex public health system.
  - **Public Health Medicine**—Protects and improves the health of the community through preventive medicine by providing public health training for clinicians such as doctors, dentists, and nurses.
  - **Public Health Policy**—The collected laws, regulations, and approaches taken to making decisions and implementing policy to protect the health of communities and populations. Public health policy issues include a wide range of topics including health care reform, insurance reform, prevention of communicable diseases, food safety, and stem cell research.
  - **Public Health Practice**—Application of knowledge and competencies in performance of essential public health services.
  - **Risk Assessment**—Determination of the probability that a specific public health environmental or other threat will occur, with a focus on adverse health effects, risk perception, communication, and management.
  - **Social Determinants of Health**—Study of the political, cultural, and societal systems that influence behaviors and lifestyle decisions that have an impact on health.
  - **Substance Use/Harm Reduction**—Study of theory and methods for research on substance use and community-based prevention, control, and treatment.
  - **Toxicology**—Study of the adverse effects of chemicals or other physical agents on human beings and other living organisms.
  - **Tropical Medicine**—Deals with infectious and other diseases occurring or originating primarily in tropical and subtropical regions.
  - **Veterinary Public Health**—Study of the prevention and control of zoonotic diseases—transmissible from animals to humans—in both animal and human populations.
  - **Women's Health**—Etiology, prevention, and treatment of public health problems affecting women and other high-risk groups.
- 2 This course is what UW calls a "special topics" course. These are courses whose topic changes from semester to semester and even between sections in the same semester. Sections of these courses accepted by the certificate in the past are shown in parentheses (like this). Use of approved sections to meet the certificate's electives requirement is fine, but they are not always seen automatically by the certificate's degree audit. Questions about these courses should be directed to certificate advising staff.

## LEARNING OUTCOMES

Completing an Undergraduate Certificate in Global Health gives you tools to operate as a global citizen. Through classroom-based courses and a field experience, you will learn to:

- discuss the global burden of disease, threats to well-being in varied settings, and the root causes of these conditions;
- understand how practitioners from a variety of disciplines (health care, education, agriculture, engineering, nutrition, etc.) collaborate with local partners to improve health;
- reflect on your values, ethics and assumptions, so you can practice respectful and mutual engagement with other cultures, collaborators and organizations;
- communicate effectively with other public health professionals and with community representatives about measures being taken to address key health concerns in their communities both within and outside the United States; and
- use your domestic and international health experience to become informed citizens in an increasingly interconnected world.

## ADVISING AND CAREERS

Details about advising for the certificate are available on the program's advising page (<http://ghi.wisc.edu/education/undergraduate-certificate/advising>).

The certificate maintains a handbook (<http://ghi.wisc.edu/education/undergraduate-certificate/handbook>) with lengthy sections about careers, including suggested global health-related work opportunities to pursue in students' first one to two years after college.

## PEOPLE

Please see the Certificate in Global Health website (<http://ghi.wisc.edu/education/undergraduate-certificate/#Who>) for a list of certificate staff and ways to contact them.

## NUTRITIONAL SCIENCES, B.S.

The bachelor of science with a major in nutritional science builds on a core set of nutrition courses with additional courses emphasizing the chemistry and biology of nutrients from the molecular to the systemic level. Students in this program often pursue graduate study in medicine, nutritional sciences, and other biological sciences. Graduates also find employment in agribusiness, the food industry, government agencies, health fields, and human services. Others may pursue advanced degrees in nutrition, the health and social sciences, and international studies. Students concerned with food and nutrition problems of developing countries can also enroll in courses that treat the agricultural, environmental, economic, and social context of such problems with the nutrition core.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information

about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
	MATH 112 Algebra & MATH 113 and Trigonometry	
	MATH 114 Algebra and Trigonometry	
	MATH 171 Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		3-5
	MATH 210 Topics in Finite Mathematics	
	MATH 211 Calculus	
	MATH 217 Calculus with Algebra and Trigonometry II <sup>1</sup>	
	MATH 221 Calculus and Analytic Geometry 1	
	MATH 222 Calculus and Analytic Geometry 2	
	STAT 224 Introductory Statistics for Engineers	
	STAT 301 Introduction to Statistical Methods	
	STAT 371 Introductory Applied Statistics for the Life Sciences	
	STAT/B M I 541 Introduction to Biostatistics	
	STAT/F&W ECOL/ HORT 571 Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following:		5-9
	CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	
	CHEM 343 Introductory Organic Chemistry	3
	CHEM 344 Introductory Organic Chemistry Laboratory	2

CHEM 345	Intermediate Organic Chemistry	3
<b>Introductory Biology</b>		
Select one of the following options:		10
Option 1:		
	BOTANY/ BIOLOGY 130 General Botany	
	ZOOLOGY/ BIOLOGY 101 Animal Biology	
	ZOOLOGY/ BIOLOGY 102 Animal Biology Laboratory	
Option 2:		
	BIOLOGY/ BOTANY/ ZOOLOGY 151 Introductory Biology	
	BIOLOGY/ BOTANY/ ZOOLOGY 152 Introductory Biology	
Option 3:		
	BIOCORE 381 Evolution, Ecology, and Genetics	
	BIOCORE 382 Evolution, Ecology, and Genetics Laboratory	
	BIOCORE 383 Cellular Biology	
	BIOCORE 384 Cellular Biology Laboratory	
<b>Nutritional Sciences Biology</b>		
Select one of the following options:		8-13
Option 1:		
	PHYSIOL 335 Physiology	
	GENETICS 466 Principles of Genetics	
And select one of the following: <sup>2</sup>		
	MICROBIO 101 General Microbiology & MICROBIO 102 and General Microbiology Laboratory	
	MICROBIO 303 Biology of Microorganisms & MICROBIO 304 and Biology of Microorganisms Laboratory	
Option 2: <sup>3</sup>		
	BIOCORE 485 Organismal Biology	
	BIOCORE 486 Organismal Biology Laboratory	
	BIOCORE 587 Biological Interactions	
<b>Physics</b>		
Select one of the following:		8-10
	PHYSICS 103 General Physics & PHYSICS 104 and General Physics	
	PHYSICS 201 General Physics & PHYSICS 202 and General Physics	
	PHYSICS 207 General Physics & PHYSICS 208 and General Physics	
<b>Core</b>		
	NUTR SCI/AN SCI/ DY SCI 311 Comparative Animal Nutrition	3
	or NUTR SCI 332 Human Nutritional Needs	
	NUTR SCI 431 Nutrition in the Life Span	3
	BIOCHEM/NUTR SCI 510 Biochemical Principles of Human and Animal Nutrition	3
Select one of the following:		3-7

BIOCHEM 501	Introduction to Biochemistry
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II
BMOLCHEM 503	Human Biochemistry

**Electives within the Major**

Select 6 credits from the following: 6

A A E/ AGRONOMY/ INTER-AG/NUTR SCI 350	World Hunger and Malnutrition
BIOCHEM 550	Topics in Medical Biochemistry
BMOLCHEM 504	Human Biochemistry Laboratory
CHEM 311	Chemistry Across the Periodic Table
CHEM 327	Fundamentals of Analytical Science
CHEM 329	Fundamentals of Analytical Science
FOOD SCI/ AN SCI 321	Food Laws and Regulations
FOOD SCI/ MICROBIO 325	Food Microbiology
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
NUTR SCI 500	Undergraduate Capstone Seminar Laboratory
NUTR SCI/ KINES 525	Nutrition in Physical Activity and Health
NUTR SCI 540	Community Nutrition Programs and Policy Issues
NUTR SCI 631	Clinical Nutrition
NUTR SCI/PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements
NUTR SCI 681	Senior Honors Thesis <sup>4</sup>
NUTR SCI 682	Senior Honors Thesis <sup>4</sup>
NUTR SCI 691	Senior Thesis-Nutrition <sup>4</sup>
NUTR SCI 692	Senior Thesis <sup>4</sup>
NUTR SCI 699	Special Problems
PHYSIOL 533	Molecular Physiology

**Capstone**

Select one of the following: 1-8

NUTR SCI 499	Capstone in Nutrition
NUTR SCI 500	Undergraduate Capstone Seminar Laboratory
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
NUTR SCI 699	Special Problems <sup>5</sup>

Total Credits 66-91

<sup>1</sup> If MATH 171 Calculus with Algebra and Trigonometry I is taken, students must take MATH 217 Calculus with Algebra and Trigonometry II.

<sup>2</sup> Consult advisor about combining MICROBIO 303 with MICROBIO 102.

<sup>3</sup> If the Biocore sequence is taken to fulfill the first biology requirement, it must be taken to fulfill the second biology requirement.

<sup>4</sup> Note that for NUTR SCI 681/NUTR SCI 682 (Senior Honors Thesis) and NUTR SCI 691/NUTR SCI 692 (Senior Thesis), both courses in the sequence must be completed in order to earn a grade.

<sup>5</sup> Consult advisor regarding the possibility of completing NUTR SCI 699 Special Problems for capstone.

**RECOMMENDED NUTRITIONAL SCIENCE ELECTIVES**

Code	Title	Credits
ANATOMY/ KINES 328	Human Anatomy	3
BIOCHEM 550	Topics in Medical Biochemistry	2
C&E SOC/SOC 222	Food, Culture, and Society	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 410	Food Chemistry	3
M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
MED HIST/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
NUTR SCI/ KINES 525	Nutrition in Physical Activity and Health	3
NUTR SCI/ POP HLTH 621	Introduction to Nutritional Epidemiology	1
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PHM SCI 401	Survey of Pharmacology	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
SOC 531	Sociology of Medicine	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY/ BIOCHEM/PHM COL- M 630	Cellular Signal Transduction Mechanisms	3

**HONORS IN THE MAJOR**

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take NUTR SCI 681 Senior Honors Thesis and NUTR SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Obtains and can articulate specialized knowledge in the field of nutritional sciences and dietetics along with an education broad enough to meet the challenges of future careers and opportunities.
2. Obtains and can articulate foundational knowledge in areas relevant to the field of nutrition and dietetics.
3. Communicates complex ideas in a clear and understandable manner through both written and oral presentations.
4. Demonstrates quantitative literacy in math and statistics relevant to nutritional sciences and dietetics.
5. Demonstrates the ability to think critically and creatively, to synthesize, analyze, and integrate ideas for decision making and problem solving.
6. Develops the skills for life-long learning and is capable of locating, interpreting, and critically evaluating professional literature and current research.
7. Develops a global perspective and an appreciation for the interdependencies among individuals and their workplaces, communities, environments, and world; and an understanding of the interrelationships between science and society.
8. Develops a respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE NUTRITIONAL SCIENCES FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
MATH 112, 114, or 211	3-5 CHEM 104 <sup>1</sup>	5

CHEM 103 or 109 <sup>1</sup>	4-5 ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102 <sup>3</sup>	5
COMM A	3 MATH 113 (if needed)	3
First Year Seminar	1 ANTHRO 104 <sup>4</sup>	3
Elective <sup>2</sup>	3	
	14-17	16

Total Credits 30-33

##### Sophomore

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344 or 345	2
PHYSIOL 335 <sup>3</sup>	5 NUTR SCI 332	3
ZOOLOGY/BIOLOGY/BOTANY 152 or BOTANY 130 <sup>3</sup>	5 COMM B	3
MATH 211, 221, STAT 301, or STAT 371	3-5 Elective <sup>2</sup>	3
	16-18	11

Total Credits 27-29

##### Junior

Fall	Credits Spring	Credits
BIOCHEM 501 or 507 (if taking BIOCHEM 507, take BIOCHEM 508 in spring)	3 PHYSICS 104, 202, or 208	4
PHYSICS 103, 201, or 207	4-5 NUTR SCI 431	3
Electives <sup>2</sup>	9 MICROBIO 101 or 303 <sup>3</sup>	3
	MICROBIO 102 or 304 <sup>3</sup>	2
	Elective <sup>2</sup>	3
	16-17	15

Total Credits 31-32

##### Senior

Fall	Credits Spring	Credits
GENETICS 466 <sup>3</sup>	3 Capstone Experience	1-3
NUTR SCI/BIOCHEM 510	3 CHEM 327, 329, or 311	4
NUTR SCI Elective <sup>5</sup>	3 Electives <sup>2</sup>	9
Electives <sup>2</sup>	6	
	15	14-16

Total Credits 29-31

<sup>1</sup> CHEM 103/CHEM 104 or CHEM 109 is required.

<sup>2</sup> UW and CALS general education requirements are listed on the Requirements tab. Other recommended electives: Math (<http://guide.wisc.edu/courses/math>) through MATH 222 (second semester calculus), CHEM 561 Physical Chemistry, and foreign language.

<sup>3</sup> BIOCORE 381/BIOCORE 382, BIOCORE 383/BIOCORE 384, BIOCORE 485/BIOCORE 486, BIOCORE 587 also accepted.

<sup>4</sup> ANTHRO 104 fulfills both the Ethnic Studies and International Studies requirements.

<sup>5</sup> Select 3 credits from NUTR SCI/A A E/AGRONOMY/INTER-AG 350, NUTR SCI 540, NUTR SCI 631, NUTR SCI/PHM PRAC 672,

NUTR SCI 681, NUTR SCI 682, NUTR SCI 691, NUTR SCI 692, NUTR SCI 699, FOOD SCI/MICROBIO 325, FOOD SCI 410, FOOD SCI 412 or FOOD SCI 514.

- 120 credits required for graduation.

## ADVISING AND CAREERS

Prospective and declared students should contact the student services coordinator with questions.

Students in this program often pursue graduate study in medicine, nutritional sciences, and other biological sciences. Graduates also find employment in agribusiness, the food industry, government agencies, health fields, and human services. Others may pursue advanced degrees in nutrition, the health and social sciences, and international studies.

## PEOPLE

### PROFESSORS

Eide (chair), Eisenstein, Groblewski, Lai, Ney, Ntambi, Smith, Sunde, Tanumihardjo

### ASSOCIATE PROFESSOR

Olson

### ASSISTANT PROFESSORS

Parks, Yen

### DISTINGUISHED FACULTY ASSOCIATE

Karls

### FACULTY ASSOCIATE

Thurlow

### ASSISTANT FACULTY ASSOCIATE

Schuchardt

### SENIOR LECTURER

Anderson

## NUTRITIONAL SCIENCES, B.S. DIETETICS

The popular Didactic Program in Dietetics combines clinical and managerial courses with the nutrition core to prepare students to become registered dietitians (RD). Registered dietitians work in hospitals, outpatient clinics, schools, colleges, wellness programs and nursing homes as well as in public health agencies, the food industry, and research labs. Students fulfilling the requirements of the didactic program in dietetics are qualified to apply for a postgraduate dietetic internship. Upon completing the dietetic internship, a graduate is eligible to take the Academy of Nutrition and Dietetics registration examination leading to certification as a registered dietitian. The didactic program is currently granted accreditation status by the:

Commission on Accreditation for Dietetics Education (CADE)  
of the Academy of Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2000

Chicago, IL 60606-6995  
312-899-4876

Students who complete the nutritional sciences major in the dietetics degree program receive the *Bachelor of Science–Dietetics* degree.

## HOW TO GET IN

### ADMISSION TO DIETETICS DEGREE PROGRAM

Students will have PDI classification until admission to the dietetics degree program (ADI classification). Departmental approval required.

To be admitted to the B.S. dietetics program, the following requirements must be met effective fall 2015:

1. A minimum overall cumulative GPA of 3.000. Cumulative GPA will be based on UW–Madison courses only.
2. Students **must** have completed one semester at UW–Madison before applying.
3. A minimum mean GPA of 3.000 in the following required<sup>1</sup> prerequisite courses:

Code	Title	Credits
Select one of the following:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	5-9
CHEM 109	Advanced General Chemistry	
Select one of the following:		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	5
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
NUTR SCI 332	Human Nutritional Needs	3
PHYSIOL 335	Physiology	5
Select one of the following:		
PSYCH 202	Introduction to Psychology	3-4
MICROBIO 101	General Microbiology	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
GEN BUS 300	Professional Communication	

<sup>1</sup> Any transfer course from another university that will be used to meet the above required courses **cannot** be included in the GPA calculation. If the same course is taken more than once, only the grade from the last time the course was taken will be used in the GPA calculation.



**Note:** Admission to the DPD program is competitive, as enrollment is limited by accreditation standards; students meeting the minimum criteria are not guaranteed admission.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

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

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

First Year Seminar (p. 33)		1
International Studies (p. 33)		3
Physical Science Fundamentals		4-5
CHEM 103 or CHEM 108 or CHEM 109	General Chemistry I Chemistry in Our World Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry <sup>1</sup>	
Select one of the following:		3-4
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 341 or CHEM 343	Elementary Organic Chemistry Introductory Organic Chemistry	3
Select one of the following:		3
BMOLCHEM 314	Introduction to Human Biochemistry	
BMOLCHEM 503	Human Biochemistry	
BIOCHEM 501	Introduction to Biochemistry	
<b>Biology</b>		
Select one of the following:		5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
Select one of the following: <sup>2</sup>		5

MICROBIO 101 & MICROBIO 102	General Microbiology and General Microbiology Laboratory	
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	
<b>Foundation</b>		
PHYSIOL 335	Physiology	5
PSYCH 202	Introduction to Psychology	3
GEN BUS 300	Professional Communication	3-4
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
Select one of the following:		2-3
CURRIC/ CSCS 427	Methods of Teaching Family and Consumer Education	
CURRIC/ CSCS 428	Program Planning in Family and Consumer Education	
ED PSYCH 301	How People Learn	
<b>Core</b>		
FOOD SCI 301	Introduction to the Science and Technology of Food	3
FOOD SCI 437	Food Service Operations	3
FOOD SCI 438	Food Service Operations Lab	1
NUTR SCI 200	The Professions of Dietetics and Nutrition	1
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI 431	Nutrition in the Life Span	3
BIOCHEM/NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
NUTR SCI 631	Clinical Nutrition	4
<b>Capstone</b>		
NUTR SCI 500	Undergraduate Capstone Seminar Laboratory	1
NUTR SCI 520	Applications in Clinical Nutrition	3
Total Credits		71-80

<sup>1</sup> Note that placement into MATH 114 does not guarantee that credit has been earned for MATH 112.

<sup>2</sup> Consult advisor about combining MICROBIO 303 with MICROBIO 102.

## RECOMMENDED DIETETICS ELECTIVES

Code	Title	Credits
ACCT I S 300	Accounting Principles	3
ANATOMY/ KINES 328	Human Anatomy	3
COM ARTS 368	Theory and Practice of Persuasion	3
COUN PSY 650	Theory and Practice in Interviewing	3
C&E SOC/SOC 222	Food, Culture, and Society	3
FOOD SCI/ AN SCI 321	Food Laws and Regulations	1
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2

FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 410	Food Chemistry	3
FOOD SCI 412	Food Analysis	4
GEN&WS 103	Women and Their Bodies in Health and Disease	3
KINES 314	Physiology of Exercise	4
MARKETNG 300	Marketing Management	3
MED HIST/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3
NURSING/S&A PHM/ SOC WORK/ THER SCI 105	Health Care Systems: Interdisciplinary Approach	2
NURSING/PEDIAT/ PHM PRAC/ SOC WORK 746	Interdisciplinary Care of Children with Special Health Care Needs	3
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
NUTR SCI/A A E/ AGRONOMY/INTER-AG 350	World Hunger and Malnutrition	3
NUTR SCI/ KINES 525	Nutrition in Physical Activity and Health	3
NUTR SCI 540	Community Nutrition Programs and Policy Issues	1
NUTR SCI/ POP HLTH 621	Introduction to Nutritional Epidemiology	1
NUTR SCI 635	Advanced Clinical Nutrition	1
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3
PATH 404	Pathophysiologic Principles of Human Diseases	3
PHM SCI 401	Survey of Pharmacology	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
SOC 531	Sociology of Medicine	3

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take NUTR SCI 681 Senior Honors Thesis and NUTR SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- Obtains and can articulate specialized knowledge in the field of nutritional sciences and dietetics along with an education broad enough to meet the challenges of future careers and opportunities.
- Obtains and can articulate foundational knowledge in areas relevant to the field of nutrition and dietetics.
- Communicates complex ideas in a clear and understandable manner through both written and oral presentations.
- Demonstrates quantitative literacy in math and statistics relevant to nutritional sciences and dietetics.
- Demonstrates the ability to think critically and creatively, to synthesize, analyze, and integrate ideas for decision making and problem solving.
- Develops the skills for life-long learning and is capable of locating, interpreting, and critically evaluating professional literature and current research.
- Develops a global perspective and an appreciation for the interdependencies among individuals and their workplaces, communities, environments, and world; and an understanding of the interrelationships between science and society.
- Develops a respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE NUTRITIONAL SCIENCES FOUR-YEAR PLAN—DIETETICS DEGREE

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 <sup>1*</sup>	4 CHEM 104 <sup>*</sup>	5
COMM A or COMM B <sup>*</sup>	3 PSYCH 202 <sup>*</sup>	3
MATH 112 or 114	3-5 ZOOLOGY/BIOLOGY 101 (Ethnic Studies, or International Studies) <sup>*</sup>	3
ZOOLOGY/BIOLOGY 101 (Ethnic Studies, or International Studies) <sup>*</sup>	3 ZOOLOGY/ BIOLOGY 102 <sup>*</sup>	2

Elective	2 First Year Seminar	1
	15-17	14

Total Credits 29-31

##### Sophomore

Fall	Credits Spring	Credits
NUTR SCI 200 <sup>2</sup>	1 NUTR SCI 332 <sup>*</sup>	3
MICROBIO 101 or 303	3 PHYSIOL 335 <sup>*</sup>	5
MICROBIO 102 or 304	2 Statistics <sup>*</sup>	3-4
CHEM 341 <sup>2</sup>	3 GEN BUS 300	3
Electives <sup>*</sup>	3	
COMM B <sup>*</sup>	3	
	15	14-15

Total Credits 29-30

##### Junior

Fall	Credits Spring	Credits
FOOD SCI 301 <sup>*</sup>	3 NUTR SCI 431 <sup>3</sup>	3
GEN BUS 310 <sup>5</sup>	3 NUTR SCI/ BIOCHEM 510	3
BIOCHEM 501 or BMOLCHEM 314 <sup>5</sup>	3 Education Techniques <sup>4</sup>	3
Electives	6-7 GEN BUS 311	3
	Electives	3-4
	15-16	15-16

Total Credits 30-32

##### Senior

Fall	Credits Spring	Credits
NUTR SCI 631 <sup>2</sup>	4 NUTR SCI 520	3
FOOD SCI 437 <sup>2</sup>	3 Electives	12-13
FOOD SCI 438 <sup>2</sup>	1	
NUTR SCI 500	1	
Electives	6-7	
	15-16	15-16

Total Credits 30-32

<sup>1</sup> MATH 112 Algebra is a prerequisite

<sup>2</sup> Offered only first semester

<sup>3</sup> Offered only second semester

<sup>4</sup> ED PSYCH 301, CSCS/CURRIC 427, or CSCS/CURRIC 428(one course required)

<sup>5</sup> BMOLCHEM 314 conflicts with GEN BUS 310; could take GEN BUS 310 in year 4

• See Requirements tab for recommended supporting courses

• Students interested in pursuing the dietetics program must first complete specific prerequisite courses (denoted by \* above) and must achieve the necessary grade point average criteria. Consult <http://www.nutrisci.wisc.edu> for specific information on admission requirements and application procedure.

## ADVISING AND CAREERS

Prospective and declared students should contact the student services coordinator with questions.

Registered dietitians work in hospitals, outpatient clinics, schools, colleges, wellness programs and nursing homes as well as in public health agencies, the food industry, and research labs. Students fulfilling the requirements of the Didactic Program in Dietetics are qualified to apply for a postgraduate dietetic internship. Upon completing the dietetic internship, a graduate is eligible to take the Academy of Nutrition and Dietetics registration examination leading to certification as a registered dietitian.

## PEOPLE

### PROFESSORS

Eide (chair), Eisenstein, Groblewski, Lai, Ney, Ntambi, Smith, Sunde, Tanumihardjo

### ASSOCIATE PROFESSOR

Olson

### ASSISTANT PROFESSORS

Parks, Yen

### DISTINGUISHED FACULTY ASSOCIATE

Karls

### FACULTY ASSOCIATE

Thurlow

### ASSISTANT FACULTY ASSOCIATE

Schuchardt

### SENIOR LECTURER

Anderson

## PLANT PATHOLOGY

Plant pathology is the study of plants and their pathogens, the process of disease, and how plant health and disease are influenced by factors such as the weather, nonpathogenic microorganisms, and plant nutrition. It encompasses fundamental biology as well as applied agricultural sciences.

Plant pathology involves the study of plants and pathogens at the genetic, biochemical, physiological, cellular, population, and community levels, and how the knowledge derived is integrated and put into agricultural practice. Prerequisite to effective research, teaching, and extension in plant pathology is a breadth of interdisciplinary interest and knowledge, in a department and in its individual members, reaching from ecology to microbiology, from meteorology to applied mathematics, and from molecular biology to communication skills.

Plant pathology is a field that thrives in, and makes its greatest contribution to, comprehensive institutions like the University of Wisconsin–Madison where the proximity and complementarity of basic

sciences and the other applied agricultural sciences are exceptionally strong.

Undergraduates in plant pathology can choose between two tracks. The plant–microbe biology track has courses in basic math and sciences, including biology, chemistry, and physics, along with upper-level courses in plant pathology, biochemistry, and microbiology. This track is geared toward students who have an interest in receiving a broad education in the basic sciences or plan to pursue a graduate or professional degree. The plant health and industry track includes some courses in basic math and sciences, as well as additional courses in agriculture and economics/management and upper-level courses in plant pathology, entomology and other agricultural sciences. This track is designed for students who intend to work in industry after receiving their undergraduate degree. More information about careers in plant pathology is available from the department.

For those interested in graduate studies, the Department of Plant Pathology offers a broad program leading to M.S. and Ph.D. degrees, which is described in the Graduate Guide (<http://guide.wisc.edu/graduate>).

## DEGREES/MAJORS/CERTIFICATES

- Plant Pathology, B.S. (p. 172)

## PEOPLE

### PROFESSORS

Ahlquist, Paul  
Allen, Caitilyn  
Bent, Andrew  
Clayton, Murray  
MacGuidwin, Ann  
McManus, Patricia (chair)  
Rouse, Douglas

### ASSOCIATE PROFESSORS

Barak-Cunningham, Jeri  
Gevens, Amanda

### ASSISTANT PROFESSORS

Kabbage, Mehdi  
Koch, Paul  
Lankau, Richard  
Rakotondrafara, Aurelie  
Silva, Erin  
Smith, Damon

### FACULTY ASSOCIATE

Hudelson, Brian

## PLANT PATHOLOGY, B.S.

Plant pathology is the study of plants and their pathogens, the process of disease, and how plant health and disease are influenced by factors such as the weather, nonpathogenic microorganisms, and plant nutrition.

It encompasses fundamental biology as well as applied agricultural sciences.

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This major is earned through the bachelor of science degree program.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I	
	or CHEM 108 Chemistry in Our World	
	or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
	CALS Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)	

## MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Core Mathematics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
<b>Core Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Introductory Biology</b>		
Select one of the following options:		10
Option 1 (preferred):		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
Option 2:		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
Option 3:		
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
<b>Core Physics</b>		
Select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
<b>Plant Pathology Core</b>		
PL PATH 300	Introduction to Plant Pathology	4
PL PATH/BOTANY 332	Fungi	4
Another PI Path course above 300 <sup>1</sup>		3
<b>Capstone</b>		
PL PATH 590	Capstone in Plant Pathology	3

### Track

Select one of the following:	29-39
Plant-Microbe Biology Track	
Plant Health and Industry Track	
Total Credits	67-83

<sup>1</sup> Not including PL PATH 375 Special Topics or independent study credits—PL PATH 299 Independent Study, PL PATH 399 Coordinative Internship/Cooperative Education, PL PATH 590 Capstone in Plant Pathology, PL PATH 681 Senior Honors Thesis, PL PATH 682 Senior Honors Thesis, or PL PATH 699 Special Problems.

## TRACKS

### PLANT-MICROBE BIOLOGY TRACK

Code	Title	Credits
<b>Additional Mathematics and Statistics</b>		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II <sup>1</sup>	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2 <sup>2</sup>	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Additional Chemistry</b>		
Select one of the following options:		4-8
CHEM 343 & CHEM 344 & CHEM 345	Introductory Organic Chemistry and Introductory Organic Chemistry Laboratory and Intermediate Organic Chemistry	
CHEM 341 & CHEM 342	Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory	
<b>Biology</b>		
Select one of the following options:		5-8
Option 1:		
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	
GENETICS 466	Principles of Genetics	
Option 2:		
Select two of the following:		
BIOCORE 485	Organismal Biology	
BIOCORE 486	Organismal Biology Laboratory	
BIOCORE 587	Biological Interactions	
<b>Additional Physics</b>		
Select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Plant Physiology</b>		
BOTANY 500	Plant Physiology	3-4

**Plant-Microbe Electives**

Select 5 credits from the following:	5
BIOCHEM 501	Introduction to Biochemistry
BOTANY 300	Plant Anatomy
BOTANY 400	Plant Systematics
or BOTANY 401	Vascular Flora of Wisconsin
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
ENTOM/ ZOOLOGY 302	Introduction to Entomology
Any PL PATH course above 300	
<b>Total Credits</b>	<b>29-39</b>

<sup>1</sup> MATH 171 is a prerequisite for MATH 217.

<sup>2</sup> MATH 221 Calculus and Analytic Geometry 1/MATH 217 Calculus with Algebra and Trigonometry II is a prerequisite for MATH 222 Calculus and Analytic Geometry 2

**PLANT HEALTH AND INDUSTRY TRACK**

Code	Title	Credits
<b>Biology</b>		
GENETICS 466	Principles of Genetics	3
<b>Core</b>		
PL PATH 559	Diseases of Economic Plants	3-4
or BOTANY 500	Plant Physiology	
<i>Plant Health and Industry Electives</i>		
Select 24 credits from at least two different departments from the following:		24
AGRONOMY 100	Principles and Practices in Crop Production	
AGRONOMY 300	Cropping Systems	
AGRONOMY 302	Forage Management and Utilization	
AGRONOMY/ HORT 328	Integrated Weed Management	
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology	
BOTANY 300	Plant Anatomy	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
BOTANY 500	Plant Physiology	
BIOCHEM 501	Introduction to Biochemistry	
BSE 216	Irrigation Systems - Design and Use	
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	
C&E SOC/ SOC 222	Food, Culture, and Society	
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	
C&E SOC/ AMER IND/ SOC 578	Poverty and Place	

C&E SOC/ SOC 650	Sociology of Agriculture
ENTOM/ ENVIR ST 201	Insects and Human Culture-a Survey Course in Entomology
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 342	Insect Ecology
F&W ECOL 100	Introduction to Forestry
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin
F&W ECOL/ BOTANY/ ZOOLOGY 460	General Ecology
F&W ECOL 550	Forest Ecology
HORT 120	Survey of Horticulture
HORT/ PL PATH 261	Sustainable Turfgrass Use and Management
HORT/ LAND ARC 263	Landscape Plants I
HORT 320	Environment of Horticultural Plants
HORT 345	Fruit Crop Production
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
NUTR SCI 132	Nutrition Today
NUTR SCI/AN SCI/ DY SCI 311	Comparative Animal Nutrition
NUTR SCI 332	Human Nutritional Needs
NUTR SCI/A A E/ AGRONOMY/ INTER-AG 350	World Hunger and Malnutrition
NUTR SCI/ BIOCHEM 510	Biochemical Principles of Human and Animal Nutrition
NUTR SCI 540	Community Nutrition Programs and Policy Issues
PL PATH any course above 300 not already taken for another category	
SOIL SCI/ ATM OCN 132	Earth's Water. Natural Science and Human Use
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
SOIL SCI 301	General Soil Science
SOIL SCI 322	Physical Principles of Soil and Water Management
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SOIL SCI 325	Soils and Landscapes

SOIL SCI/  
AGRONOMY/  
HORT 326

Plant Nutrition Management

### Business

Select 6 credits from the following: 6

ACCT I S 100	Introductory Financial Accounting
ACCT I S 211	Introductory Managerial Accounting
ACCT I S 300	Accounting Principles
ACCT I S 301	Financial Reporting I
ACCT I S 302	Financial Reporting II
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning
A A E 215	Introduction to Agricultural and Applied Economics
A A E 320	Farming Systems Management
A A E 322	Commodity Markets
A A E 323	Cooperatives
A A E 419	Agricultural Finance
A A E/ECON 421	Economic Decision Analysis
A A E/ECON 474	Economic Problems of Developing Areas
ECON 101	Principles of Microeconomics
ECON 102	Principles of Macroeconomics
LSC 270	Communication in Life Science Industries
M H R 300	Managing Organizations
M H R 305	Human Resource Management

Total Credits 36-37

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Define and explain major concepts in the biological sciences including Plant Pathology.

2. Appropriately use biological instrumentation and laboratory techniques.
3. Explain and apply the scientific method including designing and conducting experiments and testing hypotheses.
4. Recognize the relationship between structure and function at all levels: molecular, cellular, organismal, and ecological.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form.
6. Integrate math, physical sciences, and technology to answer biological questions using the scientific method.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE PLANT PATHOLOGY FOUR-YEAR PLAN—PLANT HEALTH AND INDUSTRY TRACK

##### Freshman

Fall	Credits Spring	Credits
MATH 112 or 113 (or STATS, COMP SCI)	3 MATH 113 or 114 (or STATS, COMP SCI)	3-5
CHEM 103 or 109	4-5 CHEM 104	5
First Year Seminar	1 Plant Health or Econ/ Acct/Mgmt	0-11
Gen Ed <sup>1</sup>	0-11 Gen Ed <sup>1</sup>	0-8
	8-20	8-29

Total Credits 16-49

##### Sophomore

Fall	Credits Spring	Credits
ZOOLOGY/BIOLOGY/ BOTANY 151 or 101	5 ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
PHYSICS 103, 201, or 207	4-5 PL PATH/BOTANY 332	4
Plant Health or Econ/ Acct/Mgmt	0-9 Plant Health or Econ/ Acct/Mgmt	0-9
Gen Ed <sup>1</sup>	0-8 Gen Ed <sup>1</sup>	0-8
	9-27	9-26

Total Credits 18-53

##### Junior

Fall	Credits Spring	Credits
PL PATH 300	4 GENETICS 466	3
Plant Health or Econ/ Acct/Mgmt	0-14 PL PATH > 300	0-4
Gen Ed <sup>1</sup>	0-14 Plant Health or Econ/ Acct/Mgmt	0-15
	PL PATH 558 <sup>2</sup>	3
	Gen Ed <sup>1</sup>	0-15
	4-32	6-40

Total Credits 10-72



Junior		Credits
Summer		
PL PATH 559 <sup>2</sup>		3
		3

Total Credits 3

Senior		Credits
Fall	Credits Spring	
Plant Health or Econ/ Acct/Mgmt	0-18 Capstone Experience	3
PL PATH > 300	0-4 Plant Health or Econ/ Acct/Mgmt	0-15
Gen Ed <sup>1</sup>	0-18 Gen Ed <sup>1</sup>	0-15
	0-40	3-33

Total Credits 3-73

Senior		Credits
Summer		
PL PATH 559 <sup>2</sup>		3
		3

Total Credits 3

<sup>1</sup> Gen-Ed requirements include communications, ethnic studies, humanities, social science, or international studies. See Requirements tab for more details.

<sup>2</sup> Students can take either PL PATH 558 in the odd spring or PL PATH 559 in the odd summer

**Note: Possible places where students may cut down on courses:** COMM-A placement test, COMM-B taken as ZOOLOGY 152, QR-A placement test, AP/IB credits (biology, social sciences, humanities, language, chemistry, physics, math, statistics)

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING IN PLANT PATHOLOGY

Students in plant pathology are assigned two advisors, the staff advisor (Sara Rodock, rodock@wisc.edu, appointment link (<http://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)) and one of our faculty advisors. Current faculty advisors include:

Dr. Caitilyn Allen  
 Dr. Jeri Barak (lead faculty advisor)  
 Dr. Brian Hudelson  
 Dr. Amanda Gevens  
 Dr. Mehdi Kabbage  
 Dr. Paul Koch  
 Dr. Richard Lankau  
 Dr. Patty McManus

Undergraduates in plant pathology are required to meet with their advisor before they can enroll for the upcoming term. A hold will be placed on student records until they meet with their advisor.

For more information about the Plant Pathology major or the department in general, please contact either the lead undergraduate advisor, Dr. Jeri Barak, or the student services coordinator, Sara Rodock. Students

with questions regarding lab positions (both paid and unpaid) in plant pathology should contact Dr. Jeri Barak.

## CAREERS AND PROFESSIONAL DEVELOPMENT

For more information on careers available to plant pathology students please visit our Internship & Job Resources (<http://www.plantpath.wisc.edu/student-internships-jobs>) page. For more information on other academic, co-curricular, financial aid, and career opportunities and services available to plant pathology students, please visit the CALS "Building Your Career" (<http://www.cals.wisc.edu/academics/undergraduate-programs/careerservices/career-development>) page. Students in the major are welcome to make an individual appointment with Sara Rodock, rodock@wisc.edu (appointment link for current UW–Madison students (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/eBLVAOve.html>)) to discuss career related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

## PEOPLE

### PROFESSORS

Ahlquist, Paul  
 Allen, Caitilyn  
 Bent, Andrew  
 Clayton, Murray  
 MacGuidwin, Ann  
 McManus, Patricia (chair)  
 Rouse, Douglas

### ASSOCIATE PROFESSORS

Barak-Cunningham, Jeri  
 Gevens, Amanda

### ASSISTANT PROFESSORS

Kabbage, Mehdi  
 Koch, Paul  
 Lankau, Richard  
 Rakotondrafara, Aurelie  
 Silva, Erin  
 Smith, Damon

### FACULTY ASSOCIATE

Hudelson, Brian

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

Undergraduates majoring in plant pathology at UW–Madison will find an inclusive, welcoming community where professors know their students and are able to provide guidance based on students' specific academic and career goals. There are numerous opportunities to conduct research with internationally prominent faculty and to take part in the Wisconsin Idea, whereby faculty and students extend the knowledge developed at the university to stakeholders in Wisconsin and beyond for the betterment of society.

Plant pathology offers paid research internships during summer term, as well as paid or credit-earning research opportunities year-round. Undergraduates get a firsthand view of how research is conducted and what it means to be a professional scientist.

By joining the Plant Pathology Undergraduate Club, majors get to know their fellow students outside the classroom. The department provides resources for students to meet experts who lead discussions on a range of topics including cutting-edge research and technology, career options, and how to apply and compete for jobs.

## SOIL SCIENCE

The Department of Soil Science provides undergraduate and graduate education in agricultural, environmental, and natural resource aspects of soils. Areas of emphasis include soil ecology; soil erosion and tillage management; soil fertility and plant nutrition; soil physicochemical phenomena; fate of soil contaminants; waste management; water and contaminant transport; pedology; and land-use analysis. Soils are a critical natural resource in environmental protection, food and fiber production, turf and grounds management, rural and urban planning, and waste disposal. All of these facets of soils and soil science are integrated into the department's course offerings and research programs. Soil science majors prepare for professional, technical, consulting and administrative positions in such areas as the environmental sciences, ecology and restoration, crop and timber production, soil survey, and informatics, conservation, environmental pollution control, turf and grounds management, and land-use planning. Contact the department for further information on career opportunities.

Students completing an undergraduate major in soil science earn a bachelor of science degree. A problem-solving "capstone course" that integrates knowledge gleaned from a diversity of courses is required.

The department also serves as the administrative home for the environmental sciences major in the College of Agricultural and Life Sciences.

## DEGREES/MAJORS/CERTIFICATES

- Environmental Sciences, B.S. (CAL S) (p. 178)
- Soil Science, B.S. (p. 185)

## PEOPLE

### PROFESSORS

Barak, Bland, Bleam, Hartemink (chair), Hickey, Kung, Laboski, Long, Pedersen, Powell, Ventura

### ASSOCIATE PROFESSORS

Balster, Ruark, Soldat

### ASSISTANT PROFESSORS

Arriaga, Whitman

## RESOURCES AND SCHOLARSHIPS

Financial support—in the form of approximately 15 scholarships, part-time employment, paid internships, and work-study programs—is available to qualified undergraduate students. The department also provides opportunities and limited financial support in the form of research assistantships to qualified students seeking M.S. and/or Ph.D. degrees (see the *Graduate Guide*).

## ENVIRONMENTAL SCIENCES, B.S. (CAL S)

The environmental sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in environmental sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences, and the College of Letters & Science.

The environmental sciences major can be earned in either the College of Agricultural and Life Sciences (CAL S) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CAL S and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CAL S, the major is housed administratively in the Department of Soil Science.
- In L&S, the major is housed administratively in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including environmental studies, life sciences communication, agronomy, soil science, landscape architecture, foreign language/culture, and a number of other disciplines.

Up-to-date information, curriculum, and requirements are posted at [envirosoci.wisc.edu](https://envirosoci.wisc.edu) (<https://envirosoci.wisc.edu>).

## HOW TO GET IN

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALS undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 33)		

### REQUIREMENTS FOR THE MAJOR

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of **15 credits** must be completed in the major that are not used elsewhere.

Code	Title	Credits
	Mathematics & Statistics	8-13
	Chemistry	8-12
	Biology	8-10
	Physics	8-10
	Major Foundation	3-5
	Major Core	12
	Major Electives	12
	Capstone	2-6
	Total Credits	61-80

### MATHEMATICS AND STATISTICS

This major requires calculus. Prerequisites may need to be taken before enrollment in calculus. Refer to the Course Guide for information about calculus prerequisites.

Code	Title	Credits
Select one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1 (Recommended)	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 211	Calculus	
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	

STAT 302	Accelerated Introduction to Statistical Methods	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
Total Credits		8-13

**CHEMISTRY**

Code	Title	Credits
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	5-9
Select one of the following:		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343	Introductory Organic Chemistry	
CHEM 561	Physical Chemistry	
Total Credits		8-12

**BIOLOGY**

Code	Title	Credits
Select one of the following:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
Total Credits		10

**PHYSICS**

Code	Title	Credits
Select on of the following:		8-10
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (Recommended)	
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
Total Credits		8-10

**MAJOR FOUNDATION**

Code	Title	Credits
Select one of the following:		3-5
ENVIR ST/ILS 126	Principles of Environmental Science	
ENVIR ST/ GEOG 127	Physical Systems of the Environment	
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOSCI/ ENVIR ST 106	Environmental Geology	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
Total Credits		3-5

**MAJOR CORE**

Select at least 3 credits from each of the following subsets:

**Ecology**

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

**Physical Environment**

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

**Geospatial Sciences**

Code	Title	Credits
COMP SCI 301	Introduction to Data Programming	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3

GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

**Environmental Policy & Social Perspectives**

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ECON/ ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

**MAJOR ELECTIVES**

Select one of two tracks:

**Distributed Electives**

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

**Ecology**

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3

CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Area of Focus

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.<sup>1</sup>

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3

CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3

C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ECON/ ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

<sup>1</sup> Consult environmental sciences advisor regarding alternate ways to complete the major electives.

## CAPSTONE <sup>1</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL 577	Complexity and Conservation of White-tailed Deer	3
F&W ECOL 590	Integrated Resource Management	3
F&W ECOL 599	Wildlife Research Capstone	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 551	Senior Project in Landscape Architecture	4
LAND ARC 666	Restoration Ecology	3
SOIL SCI 499	Soil Management	3

<sup>1</sup> Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the Capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee.

Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.
6. Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.
7. Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).



8. Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

<sup>1</sup> Completion of BIOLOGY/BOTANY/ZOOLOGY 152 fulfills the COMM B university requirement.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE ENVIRONMENTAL SCIENCES FOUR-YEAR PLAN

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
MATH 114 or 171	5 MATH 221 or 217	5
First Year Seminar	1 COMM A Course	3
Humanities / Literature / Arts Course	3 Ethnic Studies Course	3
	13-14	16

Total Credits 29-30

##### Sophomore

Fall	Credits Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 or BOTANY 130	5 ZOOLOGY/BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 (or ZOOLOGY 152)	5
CHEM 341, 343, or 561	3 STAT 371	3
International Studies Course	3 Environmental Sciences Foundation Course	3
Electives / Social Sciences Course	3-4 Humanities / Literature / Arts Course	3-4
	14-15	14-15

Total Credits 28-30

##### Junior

Fall	Credits Spring	Credits
PHYSICS 207, 201, or 103	4-5 PHYSICS 208, 202, or 104	4-5
Major Core Courses	3-6 Major Core Courses	3-6
Electives / Other Courses	8+ Electives / Other Courses	8+
	7-19	7-19

Total Credits 14-38

##### Senior

Fall	Credits Spring	Credits
Environmental Sciences Major Elective Courses	6-9 Environmental Sciences Major Elective Courses	3-6
Finish Major Core Courses	0-6 Electives / Other Courses	9+
Capstone	2-6	
Electives / Other Courses	6+	
	8-27	3-15

Total Credits 11-42

## ADVISING AND CAREERS

### ADVISING

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALS undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

### CAREERS

A major in environmental sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, forest ranger, oceanographer, agricultural technician, engineering technician, forester, air and water quality manager, environmental analyst, park ranger, air pollution analyst, environmental consultant, environmental educator, geologist, project manager, environmental engineer, geophysicist, biologist, hazardous waste manager, hydrologist, environmental lawyer, chemical technician, soil conservation technician, chemist, management consultant, teacher, meteorologist, urban and regional planner, civil engineer, environmental planner, microbiologist/wastewater plant operator, natural resource specialist, wildlife manager, conservationist, or zoologist. For more info about careers, please visit our website (<http://envirosoci.wisc.edu/careers-internships>).

## PEOPLE

### EXECUTIVE COMMITTEE

Balster, Nick, Associate Professor, Department of Soil Science  
Martin, Jonathan, Professor, Department of Atmospheric and Oceanic Sciences

Thompson, Anita, Professor, Department of Biological Systems Engineering

### PROGRAM COMMITTEE

Bertram, Timothy, Associate Professor, Department of Chemistry  
Grainger, Corbett, Assistant Professor Department of Agricultural and Applied Economics

Harrington, John, Professor, Department of Landscape Architecture  
Holloway, Tracey, Professor, Nelson Institute for Environmental Studies  
Hotchkiss, Sara, Professor, Department of Botany

Kanarek, Marty, Professor, Department of Population Health Sciences  
Schauer, James, Professor, Department of Civil and Environmental Engineering

Stoltenberg, David, Professor, Department of Agronomy

## SOIL SCIENCE, B.S.

The Department of Soil Science provides undergraduate and graduate education in agricultural, environmental, and natural resource aspects

of soils. Areas of emphasis include soil ecology; soil erosion and tillage management; soil fertility and plant nutrition; soil physicochemical phenomena; fate of soil contaminants; waste management; water and contaminant transport; pedology; and land use analysis. Soils are a critical natural resource in environmental protection, food and fiber production, turf and grounds management, rural and urban planning, and waste disposal. All of these facets of soils and soil science are integrated into the department's course offerings and research programs. Soil science majors prepare for professional, technical, consulting, and administrative positions in such areas as the environmental sciences, ecology and restoration, crop and timber production, soil survey, and informatics, conservation, environmental pollution control, turf and grounds management, and land-use planning. Contact the department for further information on career opportunities.

Students completing an undergraduate major in soil science earn a Bachelor of Science degree. A problem-solving "capstone course" that integrates knowledge gleaned from a diversity of courses is required.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 30).

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

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (<http://www.cals.wisc.edu/academics>), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

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

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 33)	1
	International Studies (p. 33)	3
	Physical Science Fundamentals	4-5
CHEM 103 or CHEM 108 or CHEM 109	General Chemistry I Chemistry in Our World Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 33)		

## MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also

be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following courses:		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following courses:		3-4
STAT 224	Introductory Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences (recommended)	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Select one of the following options:		5-9
Option 1:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
Option 2:		
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10
Option 1 (recommended):		
BOTANY/ BIOLOGY 130	General Botany <sup>2</sup>	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
<b>Core</b>		
SOIL SCI 301	General Soil Science	4
SOIL SCI 325	Soils and Landscapes	3
Select one of the following courses:		3
SOIL SCI 321	Soils and Environmental Chemistry	
SOIL SCI 621	Soil Chemistry	
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management	

SOIL SCI/  
BOTANY/  
HORT 626

Mineral Nutrition of Plants

Select one of the following courses: 3

SOIL SCI 322 Physical Principles of Soil and Water Management

SOIL SCI 622 Soil Physics

Select one of the following courses: 3

SOIL SCI/  
PL PATH 323 Soil Biology

SOIL SCI/  
MICROBIO 425 Environmental Microbiology

SOIL SCI/  
MICROBIO 523 Soil Microbiology and Biochemistry

### Specialization

Students must complete 1 of 3 specializations: 1. Environmental Soil Science 2. Soil and Food Systems 3. Turf and Grounds (see below) 28-51

### Capstone <sup>3</sup>

Select one of the following courses: 3-4

SOIL SCI 499 Soil Management <sup>4</sup>

ENVIR ST/  
SOIL SCI 575 Assessment of Environmental Impact

F&W ECOL/A A E/  
ENVIR ST 652 Decision Methods for Natural Resource Managers

Total Credits 68-99

<sup>1</sup> Note that MATH 171 & MATH 217 must be taken as a sequence.

<sup>2</sup> BOTANY/BIOLOGY 130 is required by the Turf and Grounds Track.

<sup>3</sup> Consult advisor to request permission to substitute another course for the Capstone requirement. Course must meet CALS Capstone Characteristics described in the Undergraduate Catalog and be approved by advisor and 116 Ag Hall.

<sup>4</sup> SOIL SCI 499 capstone required for Turf and Grounds Track.

## SPECIALIZATIONS WITHIN THE MAJOR ENVIRONMENTAL SOIL SCIENCE

Code	Title	Credits
<b>Mathematics</b>		
Select one of the following courses:		5
MATH 211	Calculus	
MATH 221	Calculus and Analytic Geometry 1	
MATH 217	Calculus with Algebra and Trigonometry II	
<b>Physics</b>		
Select one of the following courses:		4-5
PHYSICS 103	General Physics (recommended)	
PHYSICS 104	General Physics	
PHYSICS 207	General Physics	
PHYSICS 208	General Physics	
<b>Chemistry</b>		
Select one of the following options:		4-8
Option 1:		
CHEM 311	Chemistry Across the Periodic Table	

CHEM 327 or CHEM 329	Fundamentals of Analytical Science Fundamentals of Analytical Science
Option 2:	
CHEM 341 & CHEM 342	Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory
Option 3:	
CHEM 343 & CHEM 344 & CHEM 345	Introductory Organic Chemistry and Introductory Organic Chemistry Laboratory and Intermediate Organic Chemistry
<b>Physical Environment</b>	6-8
Select one course from the following:	
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOSCI/ ENVIR ST 106	Environmental Geology
GEOSCI 202	Introduction to Geologic Structures
SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management
Select at least one course from the following:	
GEOG/CIV ENGR 320	Geomorphology
GEOG 321	Climatology
ATM OCN/ GEOG 323	Science of Climate Change
GEOG/ ENVIR ST 325	Analysis of the Physical Environment
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SOIL SCI 431	Soils of the World
SOIL SCI/ F&W ECOL/ HORT 524	Urban Soil and Environment
SOIL SCI 621	Soil Chemistry
SOIL SCI 622	Soil Physics
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants
AGRONOMY/ATM OCN/SOIL SCI 532	Environmental Biophysics
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
GEOG 578	GIS Applications
<b>Living Environment</b>	9-14
Select one course from the following:	

AGRONOMY 100	Principles and Practices in Crop Production
AGRONOMY 300	Cropping Systems
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
HORT 345	Fruit Crop Production
HORT 370	World Vegetable Crops
AGROECOL 400	Study Abroad in Agroecology
SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology
SOIL SCI/ MICROBIO 425	Environmental Microbiology
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry
Select one course from the following:	
BOTANY/F&W ECOL/ZOOLOGY 460	General Ecology
F&W ECOL 550 & F&W ECOL 551	Forest Ecology and Forest Ecology Lab
GENETICS 466	Principles of Genetics
BOTANY 500	Plant Physiology
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry
GENETICS 545	Genetics Laboratory
BOTANY 563	Phylogenetic Analysis of Molecular Data
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects
Select one of the following options:	
<i>Option 1:</i>	
MICROBIO 101 & MICROBIO 102	General Microbiology and General Microbiology Laboratory
<i>Option 2:</i>	
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory
<i>Option 3:</i>	
BOTANY 330 & BOTANY/ PL PATH 332	Algae and Fungi
<b>Environmental Policy, Management, and Analysis</b>	9-12
Select one of the following courses:	
SOIL SCI/ENVIR ST 101	Forum on the Environment
ENVIR ST 112	Environmental Studies: The Social Perspective

ENVIR ST 113	Environmental Studies: The Humanistic Perspective
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG 127	Physical Systems of the Environment
A A E/F&W ECOL 652	Decision Methods for Natural Resource Managers
SOIL SCI/ENVIR ST 575	Assessment of Environmental Impact
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
ZOOLOGY 535	Ecosystem Analysis
Select one of the following courses:	
ECON 101	Principles of Microeconomics
ECON 111	Principles of Economics-Accelerated Treatment
A A E 215	Introduction to Agricultural and Applied Economics
A A E/ ENVIR ST 244	The Environment and the Global Economy
A A E 319	The International Agricultural Economy
ENVIR ST/ M&ENVTOX/PL PATH 368	Environmental Law, Toxic Substances, and Conservation
Select one of the following courses:	
ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing
ENVIR ST/LAND ARC/SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources

Total Credits 37-52

## SOIL AND FOOD SYSTEMS

Code	Title	Credits
<b>Physical Environment</b>		8-10

Select one of the following courses:

ATM OCN 100	Weather and Climate
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
ATM OCN 101	Weather and Climate
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOSCI 100	General Geology
GEOSCI/ ENVIR ST 106	Environmental Geology
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality

SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
SOIL SCI/ F&W ECOL/ HORT 524	Urban Soil and Environment

Select one of the following courses:

GEOG/CIV ENGR 320	Geomorphology
GEOG 321	Climatology
ATM OCN/ GEOG 323	Science of Climate Change
GEOG/ ENVIR ST 325	Analysis of the Physical Environment
SOIL SCI 431	Soils of the World
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry
ZOOLOGY 535	Ecosystem Analysis
F&W ECOL/ ZOOLOGY 565	Principles of Landscape Ecology
GEOG 578	GIS Applications
GEOG 579	GIS and Spatial Analysis
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
SOIL SCI 621	Soil Chemistry
SOIL SCI 622	Soil Physics
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants

Select one of the following courses:

ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing
ENVIR ST/LAND ARC/SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources

**Economics and Food Management** 6-8

Select one of the following courses:

ACCT I S 100	Introductory Financial Accounting
ACCT I S 211	Introductory Managerial Accounting
ACCT I S 300	Accounting Principles
ACCT I S 301	Financial Reporting I
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning
A A E 215	Introduction to Agricultural and Applied Economics
A A E 320	Farming Systems Management
A A E 322	Commodity Markets

A A E 323	Cooperatives	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 474	Economic Problems of Developing Areas	
M H R 305	Human Resource Management	
M H R 610	Compensation: Theory and Administration	
M H R 611	Personnel Staffing and Evaluation	
M H R 612	Labor-Management Relations	
Select one of the following courses:		
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
ACCT I S 100	Introductory Financial Accounting	
ACCT I S 211	Introductory Managerial Accounting	
ACCT I S 300	Accounting Principles	
ACCT I S 301	Financial Reporting I	
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning	
A A E 320	Farming Systems Management	
A A E 322	Commodity Markets	
A A E 323	Cooperatives	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 474	Economic Problems of Developing Areas	
SOIL SCI/ MICROBIO 425	Environmental Microbiology	
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry	
M H R 305	Human Resource Management	
M H R 610	Compensation: Theory and Administration	
M H R 611	Personnel Staffing and Evaluation	
M H R 612	Labor-Management Relations	
<b>Specialized Sciences (complete all)</b> <sup>1</sup>		
AGRONOMY 100	Principles and Practices in Crop Production	3-4
or HORT 120	Survey of Horticulture	
AGRONOMY 300	Cropping Systems	3
or AGRONOMY 302	Forage Management and Utilization	
or HORT 345	Fruit Crop Production	
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
PL PATH 300	Introduction to Plant Pathology	2-4
or ENTOM 351	Principles of Economic Entomology	
or PL PATH/ ENVIR ST/ M&ENVTOX 368	Environmental Law, Toxic Substances, and Conservation	
A A E 215	Introduction to Agricultural and Applied Economics	3
or A A E/ ENVIR ST 244	The Environment and the Global Economy	

or A A E 319	The International Agricultural Economy
or A A E/ AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition

Total Credits 28-35

<sup>1</sup> Some courses may fulfill GEN ED requirements.

## TURF AND GROUNDS

Code	Title	Credits
<b>Physical Environment</b>		
Select one of the following courses:		
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOSCI 100	General Geology	
GEOSCI/ ENVIR ST 106	Environmental Geology	
<b>Core Turf and Grounds Sciences (complete all)</b>		
ACCT I S 300	Accounting Principles	3
BOTANY/ BIOLOGY 130	General Botany <sup>1</sup>	5
HORT/PL PATH 261	Sustainable Turfgrass Use and Management	2
M H R 305	Human Resource Management	3
PL PATH 300	Introduction to Plant Pathology	4
HORT/SOIL SCI 332	Turfgrass Nutrient and Water Management	3
Specialized Sciences 7		
Select 7 credits from the following courses:		
BOTANY/F&W ECOL 402	Dendrology	
HORT/ LAND ARC 263	Landscape Plants I	
BSE 201	Land Surveying Fundamentals	
BSE 243	Operating and Management Principles of Off-Road Vehicles	
ENTOM 351	Principles of Economic Entomology	
HORT 120	Survey of Horticulture	
HORT/ PL PATH 262	Turfgrass Management Laboratory	
HORT 461	Advanced Turfgrass Management and Physiology	
BSE 216	Irrigation Systems - Design and Use	

<sup>1</sup> Counts toward Soil Science Major Biology requirements, above.

## HONORS IN THE MAJOR

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take SOIL SCI 681 Senior

Honors Thesis and SOIL SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. To instill in our undergraduate majors the knowledge base required for them to intelligently discuss, debate and communicate those aspects of soil science pertinent to their degree, specialization and career goals.
2. To provide our undergraduates with the skills and experience needed to identify and solve problems and issues of the types they may encounter in their professions.
3. To ensure that our undergraduates possess an awareness of and an appreciation for the potential impacts of soil, water, crop and waste management practices, and land use on the quality of the environment.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE SOIL SCIENCE FOUR-YEAR PLAN—SOIL & FOOD SYSTEMS SPECIALIZATION; TURF AND GROUND SPECIALIZATION

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
MATH 114 or 171	5 ETHNIC STUDIES	3
FIRST YEAR SEMINAR	1 ELECTIVES	7-8

COMM-A/ELECTIVES	3-4	
	13-15	15-16

Total Credits 28-31

##### Sophomore

Fall	Credits Spring	Credits
BOTANY/BIOLOGY 130 or ZOOLOGY 151 <sup>1</sup>	5 ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102	5
SOIL SCI 301	4 COMM-B/ELECTIVES	3
INTERNATIONAL STUDIES	3 SPECIALIZATION COURSE	4-5
ELECTIVES	3 ELECTIVES	3
	15	15-16

Total Credits 30-31

##### Junior

Fall	Credits Spring	Credits
SOIL SCI 321	3 SOIL SCI 322	3
SOIL SCI 325	3 SOIL SCI/PL PATH 323	3
STATISTICS	3 SPECIALIZATION COURSES/ELECTIVES	9-10
SPECIALIZATION COURSE/ELECTIVES	3	
	12	15-16

Total Credits 27-28

##### Senior

Fall	Credits Spring	Credits
SOIL SCI 499 (Capstone)	3 SPECIALIZATION COURSES/ELECTIVES	15-16
SPECIALIZATION COURSES/ELECTIVES	12	
	15	15-16

Total Credits 30-31

<sup>1</sup> Botany 130 and Zoo 101/102 is required for Turf and Grounds Track.

#### SAMPLE SOIL SCIENCE FOUR-YEAR PLAN—ENVIRONMENTAL SOIL SCIENCE SPECIALIZATION

##### Freshman

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104	5
MATH 114 or 171	5 ETHNIC STUDIES	3
FIRST YEAR SEMINAR	1 ELECTIVES	7-8
COMM-A/ELECTIVES	3-4	
	13-15	15-16

Total Credits 28-31

##### Sophomore

Fall	Credits Spring	Credits
BOTANY/BIOLOGY 130 or ZOOLOGY 151	5 ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102	5
SOIL SCI 301	4 Specialization Course	4-5

INTERNATIONAL STUDIES	3 ELECTIVES	3
ELECTIVES	3 COMM-B/ELECTIVES	3
	15	15-16

Total Credits 30-31

**Junior**

Fall	Credits Spring	Credits
SOIL SCI 321	3 SOIL SCI 322	3
SOIL SCI 325	3 SOIL SCI/PL PATH 323	3
SPECIALIZATION COURSES/ELECTIVES	3 SPECIALIZATION COURSES/ELECTIVES	9-10
STATISTICS	3	
	12	15-16

Total Credits 27-28

**Senior**

Fall	Credits Spring	Credits
SOIL SCI 499 (Capstone)	3 SPECIALIZATION COURSES/ELECTIVES	15-16
SPECIALIZATION COURSES/ELECTIVES	12	
	15	15-16

Total Credits 30-31

**ADVISING AND CAREERS****ADVISING AND CAREERS**

Students are assigned a faculty advisor once they declare the major. Prospective students should contact the undergraduate coordinator, Julie Garvin (jgarvin2@wisc.edu, 608-262-2239), with questions.

Most of our graduates find employment in a diversity of private and commercial enterprises and governmental agencies. Recent examples of employment include laboratory technician, turf and grounds manager, agrichemical sales representative, environmental scientist, land use planner, land zoning administrator, project manager, soil surveyor, and hydrogeologist. Approximately 12 percent of our undergraduates pursue advanced degrees.

**PEOPLE****FACULTY****Assistant Professor Francisco Arriaga**—fariaga@wisc.edu

Applied Soil Physics, Soil and Water Management and Conservation: Conservation agriculture systems; development of conservation tillage practices that enhance soil quality, soil hydraulic properties, and plant water use through the adoption of cover crops and non-inversion tillage for traditional cropping systems.

**Associate Professor Nicholas Balster**—njbalsster@wisc.edu

Soil Ecology, Plant Physiological Ecology, and Education: Energy and material cycling in natural and anthropogenic soils including forests, grasslands, and urban ecosystems; stable isotope ecology;

environmental education; nutrition management of nursery soils; tree physiology, production and response; ecosystem response to global change; urban ecosystem processes; invasive plant ecology; biodiversity.

**Professor Phillip Barak**—pwbarak@wisc.edu

Soil Chemistry and Plant Nutrition: Nutrient cycling; nutrient recovery from wastewater; molecular visualization of soil minerals and molecules; soil acidification.

**Professor William Bleam**—wfbleam@wisc.edu

Surface and Colloid Chemistry: Physical chemistry of soil colloids and sorption processes, chemistry of humic substances, factors controlling biological availability of contaminants to microorganisms, magnetic resonance and synchrotron studies of adsorption and precipitation.

**Professor Alfred Hartemink**—hartemink@wisc.edu

Pedology, Digital Soil Mapping: Application of fundamental soil science to real-world problems; digital soil mapping; history and philosophy of soil science; pedology, soil survey, and soil information systems.

**Professor William Hickey**—wjhickey@wisc.edu

Soil Microbiology and Biochemistry: Soil microbiology, biodegradation, environmental toxicants, molecular physiology, functional genomics, microbial nanostructure, biotechnology.

**Professor Carrie Laboski**—laboski@wisc.edu

Soil Fertility and Nutrient Management: Sustaining agricultural production and environmental quality; elucidate the biogeochemistry and subsequent best management practices for N, P, and K fertilizers and animal manures; soil fertility related to lime, secondary, and micronutrients; evaluation of soil and plant diagnostic tests; development of tools to assist producers, ag. professionals, and regulatory agencies to sustain economically sound production of grain and forage crops.

**Professor Sharon Long**—slong@wisc.edu

Applied Environmental and Public Health Microbiology: Microbial source tracking indicators in watershed management; improving detection and quantification, environmental ecology of indicator organisms and infectious diseases, microbial community structure and function in contaminated systems, microbial safety of wastewater sludge and biosolids, biotreatability assessment.

**Professor Joel Pedersen**—joelpedersen@wisc.edu

Environmental Chemistry/Biochemistry: Behavior of organic contaminants, macromolecules, and engineered nanoparticles in natural and engineered environments.

**Professor J. Mark Powell**—jmpowel2@wisc.edu

Agroecology/Soil Fertility/International Agriculture: Environmental impacts of ruminant livestock, nutrient cycling, effects of livestock manure on soil nitrogen, phosphorus and carbon cycling and crop productivity; integrated nutrient management on dairy farms.

**Associate Professor Matthew Ruark**—mruark@wisc.edu



Soil Fertility and Nutrient Management: Soil fertility and management of grain biofuel, and vegetable crops; cover crop management; agricultural production and water quality; sustainability of dairy cropping systems; soil organic matter management.

**Associate Professor Douglas Soldat**—djsoldat@wisc.edu

Turfgrass and Urban Soils—Turfgrass, urban soils, nutrient management, water resources, soil testing, landscape irrigation; soil contamination.

**Professor Stephen Ventura**—sventura@wisc.edu

Geographic Information Systems (Joint w/Nelson Institute for Environmental Studies): Geographic information systems (GIS), biofuels and production on marginal lands, public participation GIS, urban agriculture, land-scape process modeling, soil survey and soil information systems, land and resource tenure, GIS and land use planning.

**Assistant Professor Thea Whitman**—twhitman@wisc.edu

Soil Ecology, Microbiology, and Biogeochemistry: Soil microbial ecology; organic matter decomposition and carbon stabilization; global environmental change; stable isotopes; linking functional significance of microbial communities with ecosystem processes; fire effects on soil carbon and microbes; management and policy.

## RESOURCES AND SCHOLARSHIPS

### RESOURCES AND SCHOLARSHIPS

Financial support—in the form of approximately 15 scholarships, part-time employment, paid internships, and work-study programs—is available to qualified undergraduate students. The department also provides opportunities and limited financial support in the form of research assistantships to qualified students seeking M.S. and/or Ph. D. degrees—see the Graduate Guide (<http://guide.wisc.edu/graduate>).

## COLLEGE OF ENGINEERING

Engineers design products and develop solutions to society's national and global challenges. The variety of engineering projects requires engineers to have an understanding of people and their values. Engineers blend their knowledge and practical experience with their communication and teamwork skills to work as members of diverse, multidisciplinary teams. Engineers frequently make decisions affecting the development of society and the direction it will take.

The University of Wisconsin–Madison College of Engineering is one of the best places in the world for an engineering education. The outstanding curriculum and the world-class faculty focus on providing students with the technological tools, resources, and knowledge to develop solutions to problems in fields ranging from medicine to energy to manufacturing—and many more.

In the classroom and in the lab, students study and grow their skills, yet they also enrich their academic experience outside of the classroom through opportunities such as international study, field research, internships, laboratory experience, and entrepreneurial opportunities.

Learning isn't confined to the classroom. It can happen anywhere—in the Engineering Hall study lounge, in the state-of-the-art makerspace, or in casual conversation on Engineering Mall. As Badger engineers, students are surrounded by some of the smartest, most innovative people in the world. The faculty do more than teach. They immerse students in interdisciplinary activities and offer real design challenges—and students can actually design and build products that solve those challenges.

In a college internationally renowned for its research, there also are many opportunities for undergraduate students to work directly with faculty members to propose and conduct research, and to publish and patent their results.

The Wisconsin Experience is not limited to academics. Across the university, there are a host of ways to get involved in the campus community. From the UW Marching Band to student government, students can find a home at UW.

A College of Engineering education will not only offer students the time of their lives, it will also prepare them to change life as we know it.

## DEGREES/MAJORS/CERTIFICATES

- Biology in Engineering for Engineering Majors, Certificate (p. 242)
- Biomedical Engineering, B.S. (p. 205)
- Chemical Engineering, B.S. (p. 212)
- Civil Engineering, B.S. (p. 218)
- Computer Engineering, B.S. (p. 232)
- Electrical Engineering, B.S. (p. 237)
- Engineering Mechanics, B.S. (p. 245)
- Engineering Physics, B.S. (p. 251)
- Engineering Thermal Energy Systems, Certificate (p. 278)
- Engineering for Energy Sustainability, Certificate (p. 256)
- Geological Engineering, B.S. (p. 225)
- Industrial Engineering, B.S. (p. 269)
- International Engineering, Certificate (p. 243)

- Manufacturing Engineering, Certificate (p. 279)
- Materials Science and Engineering, B.S. (p. 273)
- Mechanical Engineering, B.S. (p. 281)
- Naval Science, BNS (p. 244)
- Nuclear Engineering Materials, Certificate (p. 258)
- Nuclear Engineering, B.S. (p. 258)
- Technical Communication, Certificate (p. 265)
- Technical Japanese Studies for Undergraduates, Certificate (p. 268)

## PEOPLE

"If you think of the challenges that we face—energy, transportation, clean air and water, building the next generation of computing and communications technologies as we use up our raw materials—those are problems engineers must address. I'd like our students and faculty to take the leadership role in solving those problems in their classrooms and research."

—Dean Ian Robertson

## COLLEGE OF ENGINEERING LEADERSHIP ([HTTPS://WWW.ENGR.WISC.EDU/ABOUT/LEADERSHIP](https://www.engr.wisc.edu/about/leadership))

Dean: Ian M. Robertson

Executive Associate Dean: James P. Blanchard

Associate Dean and Chief Financial Officer: Barbara M. McPherson

Associate Dean for Undergraduate Affairs: Manuela Romero

Associate Dean for Advancement: Cathleen Walters

## ENTERING THE COLLEGE

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## POLICIES AND REGULATIONS

### REGULATIONS

Official regulations regarding enrollment, scholarship, and graduation for undergraduates in the College of Engineering.

Printer-friendly PDF ([https://www.engr.wisc.edu/app/uploads/2016/01/CoE\\_Official\\_Regulations-2.pdf](https://www.engr.wisc.edu/app/uploads/2016/01/CoE_Official_Regulations-2.pdf))

### ADMISSIONS

#### 1. Direct Admission

New students are admitted directly to the degree program (major) of their choice or to the College of Engineering as Engineering Undecided. Progression requirements must then be satisfied as described in Regulations 3–7.

#### 2. Degree Programs (Majors)

Biomedical Engineering (BME)  
 Chemical Engineering (CHE)  
 Civil Engineering (CEE)  
 Computer Engineering (CMPE)  
 Electrical Engineering (EE)  
 Engineering Mechanics (EM)  
 Engineering Physics (EP)  
 Geological Engineering (GLE)  
 Industrial Engineering (IE)  
 Materials Science and Engineering (MSE)  
 Mechanical Engineering (ME)  
 Nuclear Engineering (NE)

## PROGRESSION

### 3. First Year Progression Requirements

To automatically progress in a College of Engineering (CoE) degree program (major) after direct admission or to switch between engineering degree programs, students must complete the following requirements after their first two semesters of residency at UW–Madison:

- A. 24 credits completed at UW–Madison. Special topics, independent study, seminar, pass/fail, and credit/no credit courses will not be included in the 24 credits except for required INTEREGR 110 Introduction to Engineering and English as a Second Language courses.
- B. General Education Communications Part A (Comm A) requirement. If Comm A is not completed as a graded course at UW–Madison (i.e., completed through placement test, AP/IB, or transfer credit), then a liberal studies course of at least 3 credits with a breadth designation of Humanities, Literature, or Social Sciences must be taken on a graded basis at UW–Madison.
- C. INTEREGR 110 Introduction to Engineering
- D. Math course sequence through MATH 222 Calculus and Analytic Geometry 2 or MATH 276 Topics in Calculus II
- E. Four core courses, required for engineering degree programs (majors), completed at UW–Madison, as defined below:

1. **Math:** A minimum of two math courses numbered MATH 217 Calculus with Algebra and Trigonometry II or above; or one math course 300 level or above. If the math requirement for the degree program (major) is complete or the student has completed the calculus sequence through MATH 234 Calculus–Functions of Several Variables, then additional math courses numbered MATH 217 Calculus with Algebra and Trigonometry II or above or additional courses from the science requirement in Regulation 3.E.2. can be taken to complete the four core course requirement. Excludes MATH 228 WES Calculus Supplement, MATH/HIST SCI 473 History of Mathematics, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

2. **Science:** A minimum of two science courses required for engineering degree programs (majors) as defined in the table below. If the math and science requirements for the degree program are complete, then departmental engineering courses 200 level and above can be taken to complete the four core course requirement. Excludes EPD, InterEGR, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

- For biomedical engineering and chemical engineering majors, the following science requirements apply:
  - i One course must be CHEM 104 General Chemistry II or higher
  - ii One course must be PHYSICS 201 General Physics/E M A 201 Statics or higher

*If above two requirements are completed, select from additional science courses below.*

- For majors in civil engineering, computer engineering, electrical engineering, engineering

mechanics, engineering physics, geological engineering, industrial engineering, materials science and engineering, mechanical engineering, and nuclear engineering, the following science requirements apply:

- i One course must be either CHEM 104 General Chemistry II or higher OR PHYSICS 201 General Physics/E M A 201 Statics or higher
- ii One other science course, from the following:
  - Chemistry, all classes
  - E M A 201 Statics, E M A 202 Dynamics, M E 240 Dynamics
  - PHYSICS 201 General Physics and above
  - Calculus-based STAT 224 Introductory Statistics for Engineers and above
  - E P 271 Engineering Problem Solving I
  - COMP SCI 301 Introduction to Data Programming and above, excluding COMP SCI 304 WES-CS Group Meeting
  - Excludes special topics, independent study, seminar, pass/fail, and credit/no credit courses

F. Core and Overall GPA requirements must be satisfied as defined by CoE departments for each engineering degree program (major) (<http://progression.engr.wisc.edu>). All graded UW–Madison courses referenced in E.1. and E.2. above and any departmental engineering courses level 200 or above will be counted in the Core GPA (excludes EPD, InterEGR, special topics, independent study, and seminar courses). All graded UW–Madison courses are counted in the Overall GPA. For one and only one of these core courses that a student has repeated, the more recent of the two grades will be used in the calculation of Core and Overall GPAs. Students may not be on academic probation for GPA reasons for automatic completion of first year progression requirements.

Students who do not meet the first year progression requirements to automatically progress in a degree program (major) can be considered for non-automatic progression (Regulation 4) or extension (Regulation 5).

#### 4. Consideration for Non-Automatic Progression

Students who do not meet progression GPAs but meet all other progression requirements will be considered for progression in degree program (major). The consideration process includes review of written statement, rigor of completed courses, and grade trends.

#### 5. Extension for First Year Progression Requirements

- A. Students who will not meet progression requirements due to University of Wisconsin placement and/or assessment tests (math and ESL) will be granted a one semester extension up to their fourth semester if they are making satisfactory progress in a degree program (major).
- B. Students who do not meet the requirements in Regulation 3 may apply for a one semester extension but not beyond their fourth semester. Students granted extensions will be considered for non-automatic progression in degree program (major). The consideration process includes review of written statement, rigor of completed courses, and grade trends. Extensions will be evaluated only in cases where it is

mathematically possible during the one semester extension to meet progression GPAs for intended program.

#### 6. Diversity of Student Body

When the number of non-automatic considerations and/or applications for admission to a degree program (major) exceed the capacity of that program, progression and admission will be limited to capacity. In order to implement the University's goals of achieving a heterogeneous and diverse student body, selection of students under consideration or admission to a program operating at capacity will be based on demographic background, written statement, rigor of completed courses, and grade trends.

#### 7. Progression Requirement Completion and Extension Application

Students are required to submit to the dean's office an application for progression for a degree program (major) or an application for an extension by the deadline. Deadlines will be posted on the College of Engineering website at Progression Requirements (<http://progression.engr.wisc.edu>) and emailed to students in the College of Engineering.

### REGISTRATION

#### 8. Definitions

- A. Full-time student: One carrying a minimum credit load of 12 credits. All students are expected to be full-time unless they have the permission of the dean to be part-time. A student carrying less than the minimum credit load without the dean's permission will be placed on probation at the end of the semester.
- B. Part-time student: One who has the dean's permission to carry less than the minimum credit load (Regulation 9.F.).
- C. Semester: A term of 15 weeks minimum duration.
- D. Session: A term of less than 15 weeks duration (e.g., summer session or intersession).
- E. Modular Course: A course that is offered during a semester, but which lasts fewer than 15 weeks.

#### 9. Credit Load Constraints

- A. Maximum credit load: 20 enrolled credits per semester.
- B. Minimum credit load: 12 enrolled credits per semester or enrolled for one cooperative education program credit as an engineering co-op student during a co-op work period.
- C. For sessions there is no minimum credit load; the maximum credit load equals the number of weeks in the session.
- D. A student not on academic probation may freely choose to carry any number of credits between a minimum credit load and a maximum credit load.
- E. A student may carry more than a maximum credit load only with the recommendation of an advisor and with written approval of the dean.
- F. Part-time student: A student who wishes to carry less than a minimum credit load in a specific semester for definitive reasons—e.g., a verifiable disability, or a necessity of employment or other outside obligations exceeding 15 hours per week—must request written permission from the dean to become a part-time student. Part-time permissions must be renewed during the first two weeks of each semester. Part-time students must satisfy all regulations other than the minimum credit load. For any semester for which part-time permission is granted and the one following it, the academic status of the student is the responsibility of the student.

G. A student on academic probation is advised to carry not more than 14 credits per semester unless repeating a course. For every three credits being repeated, the student is advised to carry not more than one additional credit beyond 14, up to a maximum of 16 credits.

### 10. Student Responsibility for Scheduling

Each student is responsible for arranging a course list that will permit satisfactory progress towards degree requirements and a class schedule that (a) avoids class and final exam scheduling conflicts, (b) avoids an excessively demanding final exam schedule, and (c) verifies registration in chosen classes.

### 11. Access to Courses

Departments may specify courses as not open to students who need to complete progression requirements, or as open only to students in a specific degree program (major).

### 12. Transfer of Degree Applicable Credits

A course taken anywhere other than UW–Madison, or by independent study or resident extension, is transferable to the College of Engineering, in credits only, if it is transferable to the UW–Madison. The course counts toward graduation only if it satisfies a graduation requirement of the curriculum to which it is to be applied and only if it was passed with a grade of C (2.0 on a 4.0 scale) or better.

### 13. Transfer of Grades

Grades for courses taken anywhere other than UW–Madison are not transferable, even if the credits for those courses are transferable.

### 14. Adding Courses

Within other limits of these regulations a student may add full-semester courses only during the first two weeks of classes. (Regulation 19).

### 15. Dropping Courses

Within other limits of these regulations, a student may drop full-semester courses only during the first nine weeks of classes. Courses dropped after two days before the last day to add courses are noted on the transcript as DR. (Regulations 14, 19 and 22.G.).

### 16. Course Substitutions

A student may substitute courses that deviate from the requirements of a published curriculum of the College of Engineering upon the recommendation of the student's degree-granting department and with the approval of the college governance committee.

### 17. Pass/Fail and Credit/No Credit Courses

Pass/fail is a student-option alternative way of being graded in a regularly graded course. Credit/no credit describes courses approved for two-level grading and is not a student option.

A student may change the grading option of a full-semester course to or from pass/fail only during the first four weeks of classes. (Regulation 19). These courses must be free electives. Only students in good standing may elect the pass/fail privilege.

The pass/fail agreement is between the student and the Registrar, and is not revealed to the person teaching the course. The person teaching the course submits the appropriate letter grade to the Registrar, who converts C or higher grades to S (Satisfactory), D and F grades to U (Unsatisfactory).

Courses designated as credit/no credit will not be counted in determining the number of pass/fail courses the student may elect.

### 18. Audited Courses

A student may audit a course only if the instructor consents. Auditors are expected to attend with a reasonable regularity and to participate in the class, as determined by the instructor. Audited courses carry no degree credit, do not count in determining the minimum number of credits permitted in each term, and are not included in the calculation of the GPA. The only valid grade for audited courses is a grade of S (Satisfactory) or NR (No Report). A student may change to or from credit to audit only during the first four weeks of classes (Regulation 19).

### 19. Courses Scheduled for Fewer Than 15 Weeks

Deadlines for sessions and modular courses are listed on the Office of the Registrar's website.

## PERFORMANCE AND EVALUATION

### 20. Attendance

Each student is expected to attend all assigned classes during the regular meeting times, and take all of the examinations for those courses at the regularly scheduled times. In the case of course or examination absences excused for a reason acceptable to the course instructor, the student is expected to make up the work within a reasonable time, and may do so without a grade penalty.

### 21. Grading System

Course grades are reported by letter only; plus and minus grades are not authorized. The following grades are included in computing grade point average (GPA) and point-credit ratio (PCR).

Grade: A

Grade Points: Excellent

Per Credit: 4.0

Grade: AB

Grade Points: Intermediate

Per Credit: 3.5

Grade: B

Grade Points: Good

Per Credit: 3.0

Grade: BC

Grade Points: Intermediate

Per Credit: 2.5

Grade: C

Grade Points: Fair

Per Credit: 2.0

Grade: D

Grade Points: Poor

Per Credit: 1.0

Grade: F

Grade Points: Failure

Per Credit: 0.0

## 22. Special-Purpose Grades

The following ways of reporting course grades are also used and, except for NR, do not affect GPA or PCR

- A. S (Satisfactory) or U (Unsatisfactory) – used to report pass/fail courses (Regulation 17). S is also used in audited courses (Regulation 18).
- B. CR (Credit) or N (No Credit) – used to report credit/no credit courses (Regulation 17).
- C. NR (No Report) – signifying that no grade has been reported to the Registrar's Office – a temporary grade that must be replaced by an A-F grade; also used for a permanent grade in audited courses (Regulation 18).
- D. NW (No Work) – student enrolls in a course and then never attends. This means that instructor has no evidence that student ever attended.
- E. I (Incomplete) – a temporary grade (Regulation 27); EI is used for an extended incomplete (requires a dean's action); IN is used to indicate an incomplete in a credit/no credit course; PI is used for a permanent incomplete (Regulation 28).
- F. P (Progress) – a temporary grade used for courses extending beyond one term. The final grade determines the grade for each term and replaces P grades for the course.
- G. DR (Dropped) – indicates the course was dropped after the initial drop deadline noted on the Office of the Registrar's website.
- H. W (Withdraw) – indicates the student withdrew from the university after the initial drop deadline noted on the Office of the Registrar's website.

## 23. Course Grade Changes

The final course grade may be changed only by the professor in charge of the course section, and then only to correct a clerical error in the computation or reporting of the original grade.

## 24. Grade Point Average (GPA) and Point-Credit Ratio (PCR)

Grade point average (GPA) is computed by dividing the total number of grade points earned at UW–Madison by the total number of credits attempted (excluding pass/fail or credit/no credit courses) at UW–Madison. The point-credit ratio (PCR) differs from the grade point average in that it involves only those credits that count toward graduation and the related grade points. When a course is repeated, the credits and grade points earned only for the final attempt are included in the point-credit ratio.

## 25. Dean's Honor List

At the end of each semester the names of all full-time students in good standing with a 3.5 or higher semester GPA and cumulative GPA of at least 3.0 will be included on the Dean's Honor List. Students must have received no incompletes and no unreported grades. A notation of "Dean's Honor List" and date will be entered on the student's transcript.

## 26. Repeating Courses

Any course may be repeated at the student's option. In the case of a required course in which the student earned a grade of D and which is a prerequisite to another required course, the student is encouraged (or may be required by departmental regulation) to repeat the course. For courses taken more than once, all grades count in the grade point computations, but only the last grade for the course is applied to the student's point-credit ratio.

## 27. Incomplete

An incomplete may be reported for a student who has carried a subject with a passing grade, but because of illness or other unusual and substantiated cause beyond the student's control has been unable to complete the final examination or some limited amount of term work. A student who stays away from a final examination without proof of being prevented from attending as indicated above will receive a grade of F, N, or U (whichever is appropriate). Even with such proof, if the term work has convinced the instructor that the student cannot pass, the grade shall be F, N, or U (whichever is appropriate).

## 28. Resolution of an Incomplete

At the instructor's option, a course marked incomplete may be completed at any time no later than last day of class of the student's next semester of attendance at UW–Madison, or it will lapse into a fail. An incomplete may not be removed after five years of absence from UW–Madison without special permission of the dean. Such an incomplete remains on the record with a grade of PI and does not lapse into an F, N, or U.

## 29. Final Exam Rescheduling

A student may be permitted to take an examination at other than the regularly scheduled time only with permission of the instructor. Permission will be granted only for illness or other unusual and substantiated cause beyond the student's control. (Regulation 10).

## 30. Withdrawal

In order to withdraw from the University a student should consult an advisor and must obtain the dean's signature for the official withdrawal. Grades of W will be recorded for courses in progress if the student withdraws after 2 days before the last day to add classes (Regulations 14, 19 and 22.H.).

- A. After eight weeks of classes but prior to the last three weeks of scheduled classes, such withdrawal will be approved by the dean only for non-academic reasons or to transfer out of the College of Engineering.
- B. No official withdrawal will be granted in the last three weeks of scheduled classes. Grades of Incomplete, if justified (Regulation 27), or F, N, or U (instead of W) will be recorded for students who leave the University during this time.

## 31. Year Classification

The year classification of a student is determined by the number of credits passed and the number of grade points earned, applicable to the student's degree, as indicated by the following tabulation:

### Freshman

Numerical Classification of Year: 1  
 Minimum Credits Passed: 0  
 Minimum Grade Points Earned: 0

**Sophomore**

Numerical Classification of Year: 2  
 Minimum Credits Passed: 24  
 Minimum Grade Points Earned: 48

**Junior**

Numerical Classification of Year: 3  
 Minimum Credits Passed: 54  
 Minimum Grade Points Earned: 108

**Senior**

Numerical Classification of Year: 4  
 Minimum Credits Passed: 86  
 Minimum Grade Points Earned: 172

For the purpose of year classification only, pass/fail and credit/no credit courses and courses transferred from another campus are assumed to have earned 2.0 grade points per credit.

**32. Good Standing**

A student is in good academic standing unless on academic probation or dropped.

**33. Probation**

A student is placed on academic probation when that student has, in the semester just completed,

- A. Attained less than a 2.0 GPA; or
- B. Passed fewer than 12 credits without part-time permission from the dean.

Once on probation, the student is continued on probation until either removed from probation or dropped (Regulations 8.A., 9.F., and 37).

**34. Removal From Probation**

All of the following requirements must be satisfied for the removal of a student from academic probation (Regulation 37):

- A. A cumulative GPA of at least 2.0;
- B. A GPA of at least 2.0 for the semester just completed;
- C. At least 12 credits passed in the semester just completed;
- D. A total of at least 24 degree credits passed in the two most recent semesters in residence.

**35. Drop (Regulation 37)**

- A. A student on academic probation will be dropped at the end of any semester for which that student has attained a GPA of less than 2.0, or passed fewer than 12 credits without part-time permission from the dean, or passed less than 3/4 of the credits attempted as a part-time student.
- B. A student not on academic probation will be dropped at the end of any semester for which that student has passed less than half of the credits attempted.

**36. Readmission**

A student who has been dropped for academic reasons may be readmitted by the dean only after the student has been out of the College of Engineering for at least one semester.

**37. Session Actions**

No academic actions (probation, drop, removed from probation) will be taken at the end of sessions (Regulation 8.D).

**38. Graduation**

It is the student's responsibility to ensure that graduation requirements have been met. All students should regularly consult their DARS (Degree Audit Reporting System) document in conjunction with their advisor to ensure that all the following graduation requirements have been met:

- A. Have fulfilled the published graduation requirements of that curriculum, with all substitutions formally approved, and have achieved a minimum 2.0 GPA overall.
- B. Have a PCR (Regulation 24) of at least 2.0 for those semesters and sessions containing the last 60 credits taken at UW–Madison or for all credits taken at UW–Madison if fewer than 60.
- C. A departmental PCR of at least 2.0 for all courses taken in the degree-granting department that count toward graduation.
- D. Have completed at least 30 credits in residence in the College of Engineering, including 15 credits of work in the degree-granting department.
- E. Have completed the last two semesters in residence in the College of Engineering as a full-time student.
- F. Have a GPA of at least 2.0 both for the last semester and also for the combined last two semesters.

**39. Graduation with Distinction and Highest Distinction**

Students who have earned at least 60 credits on the University of Wisconsin–Madison campus and whose total cumulative GPA is in the top 5 percent of the College graduating class will receive the designation "Graduated With Highest Distinction," or if in the next 15 percent, "Graduated with Distinction." The appropriate designation is entered as a permanent record on the student's transcript.

**APPEAL****40. Appeal**

The Dean of the College of Engineering has the authority to suspend or modify the operation of these regulations if their enforcement is judged to work an injustice to the student.

**POLICIES****ACCREDITATION**

The following engineering undergraduate degree programs described in this catalog are accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org) (<http://www.abet.org>):

Biological Systems Engineering (with College of Agricultural and Life Sciences)  
 Biomedical Engineering  
 Chemical Engineering  
 Civil Engineering  
 Computer Engineering  
 Electrical Engineering  
 Engineering Mechanics  
 Geological Engineering  
 Industrial Engineering  
 Materials Science and Engineering  
 Mechanical Engineering

## Nuclear Engineering

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**SECOND BACHELOR'S DEGREE**

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

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**ADDITIONAL MAJOR**

Engineering students may earn an additional major in the College of Letters & Science and have the additional major noted on their transcript at the time of graduation. To qualify, the student must have approval in advance from both the department in the College of Letters & Science offering the major and the academic dean of the College of Engineering, and must satisfy all requirements for the Letters & Science major prior to or concurrently with the engineering degree. For further details, contact the College of Engineering Dean's Office, 2620 Engineering Hall.

Adding additional majors from colleges other than Letters & Science is not accepted. For example, majors such as art (School of Education) and forestry (College of Agricultural and Life Sciences) cannot be completed in conjunction with an engineering degree. Likewise, students cannot pursue more than one undergraduate engineering degree concurrently.

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**STUDENT GRIEVANCES**

In compliance with Title IX regulations, the College of Engineering has a grievance procedure to handle student complaints. Students should follow these steps until a resolution is achieved:

1. Attempt to resolve the grievance directly with the individual involved.
2. If that approach seems unsatisfactory, and the grievance involves a teaching assistant (TA), consult the professor in charge of the course.
3. If necessary, discuss the grievance with the appropriate department chair.
4. The next level involves the academic dean. Students should contact Manuela Romero in 2620 Engineering Hall or at [mromero@wisc.edu](mailto:mromero@wisc.edu).
5. All students have the right to appeal to the dean of the college, Ian Robertson, 608-262-3482, if they feel their case has not been justly handled by another dean.
6. Only a few grievances are really serious and difficult to resolve. In these instances, the dean seeks a solution that, as best as can be determined, is appropriate, just, legal and in the best interests of all concerned.

**AUTHORITY LIMITS ON GRADES**

There are areas in which the dean does not have authority to override an instructor, such as determination of a student's grade. However, it has happened that the department chair has intervened, for example, by having a grade determined by committee rather than by the course instructor.

It has also occurred, by agreement between deans, department chairs and faculty, that a misgraded course was dropped from the student's record and credit given for the controversial course by having the student pass the next higher course.

**GRIEVANCE EXAMPLES**

The following is a list of student grievances (in no particular order of frequency or importance) that have occurred:

- Discrimination based on sex, religion or political views
- Course or exam grade disputes
- Required class or examination attendance at other than regularly scheduled (timetable) times
- Changes in course content contrary to catalog description or division approval
- Difficulty in obtaining space in a critical course
- Personality conflicts between student and instructor
- Difficulty obtaining an appointment with instructor
- Unwillingness of instructor to estimate a grade before the course drop deadline date
- Teaching above the level of the class, which includes the assumption of an unlisted course prerequisite
- Intelligibility of instructors, especially those for whom English is a second language
- Excessive instructor class absences
- Rescheduled final exams by majority approval or apparent unanimity, to possible disadvantage of the minority
- Sexual harassment (Contact Manuela Romero, 608-262-3484; Jason Jankoski, 608-890-0921; or the Division of Student Life, 75 Bascom Hall, 608-263-5700)

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**REQUIREMENTS**
**UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.



### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## ENGINEERING CURRICULA

The graduation requirements for each of the engineering degrees are presented in the form of four-year programs of study. These four-year schedules are available, but rarely followed without deviation. Some students can proceed more rapidly; many must proceed more slowly and take nine or more semesters to complete the degree. Flexibility in course selection is also present through elective categories within curricula.

**All engineering curricula are designed to meet all criteria for accreditation by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org) (<http://www.abet.org>). Among other criteria, ABET requires that students complete:**

- One year of a combination of college-level mathematics and basic sciences (some with experimental experience) appropriate to the discipline.
- One and one-half years of engineering topics, consisting of engineering sciences and engineering design appropriate to the student's field of study.
- A general education component that complements the technical content of the curriculum and is consistent with the program and institution objectives.
- In addition, students must be prepared for engineering practice through the curriculum, culminating in a major design experience based on the knowledge and skills acquired in earlier coursework and incorporating appropriate engineering standards and multiple realistic constraints.

Engineering curricula continuously evolve. The requirements that apply to a particular student are determined by the date (catalog year) that a student enters a degree-granting program. At that point, the curriculum becomes fixed throughout the period it takes for a student to complete the degree, although new changes that benefit a student can be adopted by a particular student if he or she so chooses.

The curricular descriptions below do not address how these requirements are satisfied; students seldom need to be concerned with these details. However, if deviations from a curriculum are requested, they must not violate any of the accreditation requirements.

### DEVIATION FROM PRESCRIBED CURRICULA

Circumstances deemed acceptable for deviating from the outlined engineering curricula are included in each departmental description. The choice of courses to fulfill elective credit requirements provide students with considerable flexibility in their programs. In addition, some departments permit the substitution of elective courses for required ones

and also offer outstanding undergraduate students the opportunity to enroll in graduate courses. These options aid the student in tailoring a course of study to meet personal goals more closely.

### DEFINITION OF ELECTIVES

There are general types of elective courses including technical electives, liberal studies and free electives.

**Technical electives** are limited to courses in engineering and closely related fields.

**Liberal studies electives** are those courses that are classified as either humanities, literature, social studies or as foreign language.

**Free electives** are courses completely free of any restrictions or requirements other than the course prerequisites.

Other specific elective requirements are established and described in department curricula.

To assist the student in gaining a better understanding of individuals and societies, and to reduce problems of transferring from one curriculum to another, engineering curricula require adherence to the Liberal Studies Guidelines (see below). Some require slight variations from those guidelines.

### INDEPENDENT STUDY

Students who have high grade point averages may satisfy some elective credits by independent study of subjects or problems suitable for analytical investigative work. The student must identify a professor who is willing to supervise study of interest to the student. Together they must agree upon the work to be done, the credits earned (usually 1-3), and the course number (199, 299, 399, 499, 599, or 699) for which the student is to enroll before the beginning of a semester. Weekly meetings with the professor to discuss questions and report progress are customary.

## LIBERAL STUDIES GUIDELINES

The College of Engineering requires one semester's worth of liberal elective courses in humanities, literature and social science for graduation. The college specifies that students should obtain both **breadth** (i.e., both social science *and* literature or humanities), and **depth** (i.e., more than one course in the same department).

The college has established general liberal elective guidelines that have been adopted by all departments, some of which have additional stipulations (see below).

### FOR ALL ENGINEERING STUDENTS

As a graduation requirement, and to fulfill campus general education guidelines, all engineering undergraduate students must take 15 or 16 credits of liberal electives. These credits must fulfill the following subrequirements.

1. A minimum of two courses from the same department or program. At least one of these two courses must be above the elementary level. (i.e., must have I, A, or D level designator), as indicated in Course Guide.
2. A minimum of 6 credits designated as humanities or literature, and an additional minimum of 3 credits designated as social science. Foreign language courses count as humanities credits.<sup>1</sup>

- At least one course of at least 3 credits designated as ethnic studies (lower case "e" in the Course Guide). These credits may help satisfy subrequirements 1 or 2 as well, but they count only once toward the total required credits.

<sup>1</sup> **Exception:** "Retrocredits," which are credits awarded by foreign language departments for successful completion of a higher level course, do not count toward this subrequirement, nor toward the total credits required (15 or 16). They are still helpful: If a student completes one foreign language course at the intermediate level and is awarded retrocredits, then subrequirement 1 above is satisfied because the student is judged to have achieved "depth" in liberal studies.

## ADDITIONAL RESTRICTIONS/SUBREQUIREMENTS FOR SPECIFIC DEPARTMENTS

**Civil and Environmental Engineering:** An economics course (from an approved list) and an environmental studies course (with approved characteristics) are required.

**Industrial Engineering:** ECON 101 Principles of Microeconomics or ECON 111 Principles of Economics-Accelerated Treatment is required.

## RESOURCES

The solutions to challenges great and small lie not in the hands of one person, but emerge from the diverse ideas, perspectives and backgrounds of many people working together. Whether a prospective or current faculty member, staff member, or student, members of the College of Engineering create a welcoming community where they can be themselves and strive to become whatever they want to be. Here are some of the services and organizations that students can utilize along the way.

### ENGINEERING SCHOLARSHIPS

The College of Engineering and its departments award several hundred thousand dollars of scholarships to students every year. Because engineering attracts many of the best students on campus, scholarships are quite competitive.

High school students applying for admission to UW–Madison in engineering are eligible to compete for merit-based scholarships set aside for new freshmen. Applications for these Engineering Freshman Academic Achievement Awards are available through My UW–Madison once students apply for admission to the university. Visit [Scholarships@UW-Madison](mailto:Scholarships@UW-Madison) (<http://scholarships.wisc.edu/Scholarships>) for details.

Note that the application deadline indicated on the form is strictly enforced. Students should therefore not wait for notification that they have been admitted to UW–Madison before they apply for a freshman scholarship.

Once students enter an engineering department, they are typically eligible to apply for a variety of departmental merit-based scholarships. Since deadlines vary and new opportunities are continually announced, students should contact their department office for current information at least once a semester. A very few college-wide scholarships and awards are made each year. For the most part, these do not require an

application. Those that do are widely advertised by e-mail and by posters displayed on bulletin boards throughout engineering buildings.

## ACADEMIC ADVISING

Each College of Engineering program has academic advisors (<https://www.engr.wisc.edu/academics/student-services/academic-advising>) dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor in their student center.

## UNDERGRADUATE LEARNING CENTER

The Undergraduate Learning Center (<https://www.engr.wisc.edu/academics/student-services/ulc>) (ULC) in the College of Engineering provides tutoring and academic support programs for engineering undergraduates wanting to excel in their courses. The ULC is a place where students study, form study groups, and discuss engineering concepts and problem solving strategies with their peers and with the tutors and facilitators.

### Drop-In-Tutoring Sessions

Sessions are offered for over 50 courses in mathematics, chemistry, physics, statistics, and engineering. The sessions provide help with homework problems and exam preparation. Drop-in tutoring sessions are offered each evening from Sunday to Thursday, resulting in approximately 10,000 student visits last year.

### PrEPS (Practicing Engineering Problem Solving) Labs

Labs were developed to help students succeed in core courses that have traditionally proved challenging for students. The courses targeted are early in the engineering curricula and contain dense material content delivered at a fast pace. The labs reinforce concepts through practicing problem solving skills. Students commit to meeting twice every week for 60–75 minutes per meeting.

### PrEPS Study Tables

Study tables support the same courses as the PrEPS Labs but with a less structured approach. PrEPS Study Tables allow small groups of students who are interested in extra study time to meet regularly to discuss homework and concepts from the course.

### Tutoring by Request

Based on the Tutorial Services Room model developed at MIT, the College of Engineering offers Tutoring by Request (TBR) for students in critical need. Assistance is offered in a variety of courses, ranging from gateway courses, such as chemistry, math, physics courses, and other intermediate-level engineering courses.

### Special Courses and Workshops

Special courses are targeted toward helping students learn topics that span multiple courses such as math concepts common to a variety of introductory engineering courses. Workshops are offered in topics such as MATLAB and vector review to help students be successful in their engineering courses.

## INTERNATIONAL ENGINEERING STUDIES & PROGRAMS

In today's global marketplace, there is an increasing need for broadly educated engineering graduates with cross-cultural skills, international understanding and proficiency in more than one language. The College of Engineering is committed to providing and expanding international

opportunities that will assist engineering students in obtaining these important skills.

International Engineering Studies and Programs (<http://international.engr.wisc.edu>) (IESP) runs semester, year-long and summer study abroad programs at leading engineering schools in many countries around the world. These programs, selected specifically for engineering students, help ensure students have a meaningful experience abroad and continue to make progress toward degree requirements.

The college also offers a certificate in international engineering. Courses in language and culture taken abroad and in Madison can count toward this certificate, which demonstrates the student's knowledge of a specific country or region. This credential appears on the student's transcript, strengthens the resume, and testifies to their preparation for an international career.

For more information, contact the International Engineering Studies & Programs Office at [international@engr.wisc.edu](mailto:international@engr.wisc.edu) or 608-263-2191.

## ENGINEERING CAREER SERVICES WITH COOPERATIVE EDUCATION

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website (<https://www.engr.wisc.edu/academics/student-services/career-services>) or call 608-262-3471.

## DIVERSITY AFFAIRS OFFICE

The mission of the Diversity Affairs Office (<https://www.engr.wisc.edu/academics/student-services/diversity-programs>) is to recruit, retain and graduate underrepresented students of color, women, low-income students, and students who are educationally disadvantaged. The office has program initiatives in four primary areas:

### Pre-college engagement in science and engineering fields, and recruiting qualified students to engineering

The DAO provides qualified students with scholarships through the Leaders in Engineering Excellence and Diversity (LEED) Scholars program. A minimum cumulative GPA of 2.8 is required for annual scholarship continuation.

### Academic and social support

The DAO provides adjunct academic advising, study groups for challenging first-year courses, office study and gathering spaces, and referral services to promote student connections and academic excellence. Once a month, the DAO hosts a LEED Scholars meeting designed to promote community within the College of Engineering. LEED Scholars events are generally open to any student interested in a diverse learning community.

The DAO also supports the efforts of the following Registered Student Organizations: National Society of Black Engineers (NSBE-

WBESS), Society of Hispanic Professional Engineers (SHPE), and Society of Women Engineers.

## Diversity and inclusion

In cooperation with other offices and departments, the DAO develops programs and provides services designed to promote a welcoming climate that celebrates diversity for everyone in the College of Engineering. The variety of events and projects include: Women in Engineering events, a biannual college climate survey, Diversity Discussions, Teaching Assistant Training, and student data analysis aimed at broadening participation in engineering.

## COMPUTER-AIDED ENGINEERING CENTER

The Computer-Aided Engineering Center (CAE) (<http://www.cae.wisc.edu>) provides computing resources, facilities and services for students, faculty, and staff in the college. The broad range of services and resources include:

- Windows and Linux computer classrooms;
- open labs which have Windows and Linux workstations;
- industry-standard engineering software;
- software and services available on students' personal computers;
- reliable file storage for coursework;
- customer consulting and help-desk services.

The CAE walk-in help desk is located at 1410 Engineering Drive; [helpdesk@cae.wisc.edu](mailto:helpdesk@cae.wisc.edu); ([helpdesk@cae.wisc.edu](tel:608-262-5349)) 608-262-5349. For more information, see the CAE website (<http://www.cae.wisc.edu>).

## COUNSELING SERVICES

Confidential counseling services are available through University Health Services (<https://www.uhs.wisc.edu>) at no cost to engineering students. It is easier to concentrate on studies if one can deal effectively with personal, academic, and career concerns. Talking with someone who is objective and empathetic can help students sort through such concerns. Appointments can be made by phone or in person.

University Health Services  
333 East Campus Mall  
Madison, WI 53715-1384  
608-265-5600

## REGISTERED STUDENT ORGANIZATIONS

The College of Engineering offers so much more than just a first-class engineering education. Students have access to a wide variety of groups, opportunities, organizations and services that will help make their time on campus memorable and unique. There are more than 50 engineering affiliated student organizations (<https://www.engr.wisc.edu/academics/beyond-the-classroom/student-organizations>) on campus. Students can get involved in organizations that range from competitive—such as teams that build and race vehicles or concrete canoes—to service-oriented, honors societies, and student government. The College of Engineering also offers many discipline-related student chapters of professional organizations that will connect students with their peers and also help them make professional contacts.

## HONORS

In general, the concept of academic honors programs in higher education focuses resources on especially able students who are interested in

challenging themselves at unusually high levels. This concept does not translate to the College of Engineering programs. All engineering classes are challenging, focused, and require high academic ability in math and science. Further, in engineering, resources must be used to make sure all engineering graduates—not just a few—excel in every respect. Nonetheless, honors opportunities are available on a limited basis in the College of Engineering.

## ENGINEERING HONORS IN RESEARCH

Select students in degree-granting departments may pursue the Honors in Research distinction in certain departments. It requires completion of a certain number of semesters of faculty-guided independent study work and completion of a written thesis. Honors in Research programs have been developed for majors in biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, engineering mechanics, geological engineering, industrial engineering, materials science and engineering, mechanical engineering, and nuclear engineering. Interested students should contact their department for more information.

## ENGINEERING HONORS IN THE LIBERAL ARTS (EHLA)

EHLA allows for a small group of highly motivated students who have special, broad interests in liberal arts to take challenging background courses in physical science, natural science, humanities, foreign language, and social science to supplement their engineering program. The EHLA program will allow students access to honors sections in these College of Letters & Science courses. Honors courses in physical and natural science are available to invited engineering freshmen whether or not they are selected for EHLA. Conversely, no engineering courses are available as honors courses. Admission to EHLA is based on applications from high school students submitted before May 31 of their last year in high school. Fewer than 30 students are admitted each year. Interested students should contact Dr. Andrew Greenberg at [greenberg2@wisc.edu](mailto:greenberg2@wisc.edu) for an application.

The EHLA designation will be awarded to those admitted to the EHLA program who meet the following requirements when they graduate with an engineering degree:

- A cumulative grade point average of at least 3.3 in all honors courses through the semester in which all criteria for EHLA are met;
- Completion of at least 24 credits in Honors courses with grades of B or better;
- Completion of at least 6 credits in Honors courses in the humanities, 6 credits in social sciences, and 6 credits in natural sciences;
- Completion of at least 15 Honors credits in courses with the designation "H" or "I" (honors sections).

Because the classes for which Honors designation is available are taken mainly in the first year, students do not apply to the EHLA program once they begin in the College of Engineering. Students can, however, transfer from the College of Letters & Science Honors in Liberal Arts program into the EHLA program provided they transfer into an engineering program in their first two years.

# BIOMEDICAL ENGINEERING

Biomedical engineering (BME) is the application of engineering tools for solving problems in biology and medicine. It is an engineering discipline that is practiced by professionals trained primarily as engineers, but with a specialized focus on the medical and biological applications

of classical engineering principles. BMEs apply their multidisciplinary expertise to problems such as designing new medical instruments and devices, understanding and repairing the human body, and applying resourceful and cross-disciplinary approaches to age-old problems in the fields of medicine, biology, and beyond. A biomedical engineer can expect to work in a wide variety of multidisciplinary teams with professionals such as physicians, biologists, researchers, nurses, therapists, mathematicians, administrators, and many others while working in industry, as entrepreneurs, and in the medical profession and academia.

To prepare students for such careers, the 128-credit, four-year BME undergraduate degree emphasizes engineering design; access to cooperatives/internships at local or national medical device manufacturers, hospitals, or laboratories; continuous advising; flexibility in engineering specialization areas; participation in program evaluation and improvement; study-abroad opportunities; and an option to complete a one-year M.S degree following the undergraduate program.

The cornerstone of the BME program is its **unique, seven-semester design curriculum**. Students take an advising/design project course the freshman year and every semester during the sophomore through senior years. A faculty member advises small teams of students, serving as advisor/consultant/mentor, to guide them through real-world design projects solicited from clients throughout the university, medical profession, industry, and the community. These clients serve as resources for students in their project, conduct discussions, and expose the students to various aspects of the BME field. Over the course of each semester, teams design, fabricate, and ultimately present a product that meets the needs of the client. This novel approach gives students an exceptionally balanced education by incorporating clinical and biomedical industry experience, thus expanding their network. Overall, the design experiences highlight the very multidisciplinary nature of BME.

Within the program, BME students choose a course of study that emphasizes one of the following four specializations within the field:

1. **Bioinstrumentation** is the application of electronics, computer programming, and measurement principles to develop devices used in diagnosis and treatment of disease. Examples of devices and techniques that have emerged from this discipline include the electrocardiogram, the cardiac pacemaker, blood pressure measurement, brain-computer interface, implantable electrodes, sensors, tumor ablation and other medical devices. Also within the field of bioinstrumentation, micro-electromechanical systems (BioMEMS) can be used to engineer instruments and methods for research at the cellular scale, and neuroengineering applies these principles to study the function of neural systems and the development of implantable technology.
2. **Bioimaging** involves the design and enhancement of systems for noninvasive anatomical, cellular, and molecular imaging. In addition to common imaging techniques such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET), bioimaging includes topics such as biophotonics, optics, and multimode imaging, and is now expanding to serve functional and therapeutic purposes as well. Advanced capabilities result when fundamentals of engineering, physics, and computer science are applied in conjunction with the expertise of clinical collaborators.
3. **Biomechanics** applies engineering mechanics for understanding biological processes and for solving medical problems at systemic, organ, tissue, cellular, and molecular levels. This includes the

mechanics of connective tissues (ligament tendon, cartilage and bone) as well as orthopedic devices (fracture fixation hardware and joint prostheses), vascular remodeling (pulmonary hypertension), muscle mechanics with injury and healing, human motor control, neuromuscular adaptation (with age, injury, and disease), microfluidics for cellular applications, cellular motility and adhesion, and rehabilitation engineering (quantifying, adapting and restoring function for those who lost abilities).

4. **Biomaterials/cellular/tissue engineering** involves the characterization and use of structural materials, derived from synthetic or natural sources, to design medical products that safely interact with tissues for therapeutic or diagnostic purposes such as artificial blood vessels, heart valves, orthopedic joints, and drug delivery vehicles. Tissue engineers understand structure–function relationships in normal and pathological tissues to engineer living tissues and/or biological substitutes to restore, maintain, or improve function. At the cellular and molecular level this includes the study or manipulation of biological processes such as the cell's differentiation, proliferation, growth, migration, and apoptosis.

Although the various disciplines within BME can be separately defined, solving a biomedical program requires an overall understanding of the field. For example, the design of an artificial hip requires an understanding of the forces and **biomechanics** of human movement as well as the mechanical and material properties of the prosthetic device. The **material** choice and topography play a critical role in cellular and tissue integration, which ultimately leads to long-term stability of the implant. In addition, **bioimaging** techniques are required to characterize the morphology of the diseased hip and the success of the procedure. Finally, **instrumentation** devices are utilized during the hip replacement surgery.

Students choose the biomedical engineering field to be of service to people; for the excitement of working with living systems; and to apply advanced technology to the complex problems of medical care. Students in the BME program can expect to develop skills in innovative thinking, critical analysis of ethics, project management, and technical writing, all in an environment that cultivates creativity, teamwork, and curiosity. With many possible focuses within the major, BME students have the opportunity to explore and cultivate their interests in specific topics while applying the concepts of engineering to medical applications, hands-on projects, and cutting-edge research.

Students successfully completing the B.S. degree in BME with an overall GPA of 3.0 or a GPA of 3.25 for the last 60 credits of the B.S. program are eligible to apply for the one-year M.S. degree.

## DEGREES/MAJORS/CERTIFICATES

- Biomedical Engineering, B.S. (p. 205)

## PEOPLE

### FACULTY

Williams (chair)  
Ashton  
Beebe  
Block  
Brace  
Campagnola

Chesler  
Gong  
Huisken  
Keely  
Kreeger  
Li  
McClellan  
Masters  
Meyerand  
Murphy  
Rogers  
Saha  
Skala  
Thelen  
Tompkins  
Vanderby  
Webster

## INSTRUCTIONAL STAFF AND FACULTY ASSOCIATES

Nimunkar  
J. Puccinelli  
T. Puccinelli  
Suminski  
Towles  
Tyler

See also the BME Directory (<http://directory.engr.wisc.edu/bme>).

## BIOMEDICAL ENGINEERING, B.S.

Biomedical engineering (BME) is the application of engineering tools for solving problems in biology and medicine. It is an engineering discipline that is practiced by professionals trained primarily as engineers, but with a specialized focus on the medical and biological applications of classical engineering principles. BMEs apply their multidisciplinary expertise to problems such as designing new medical instruments and devices, understanding and repairing the human body, and applying resourceful and cross-disciplinary approaches to age-old problems in the fields of medicine, biology, and beyond. A biomedical engineer can expect to work in a wide variety of multidisciplinary teams with professionals such as physicians, biologists, researchers, nurses, therapists, mathematicians, administrators, and many others while working in industry, as entrepreneurs, and in the medical profession and academia.

To prepare students for such careers, the 128-credit, four-year BME undergraduate degree emphasizes engineering design; access to cooperatives/internships at local or national medical device manufacturers, hospitals, or laboratories; continuous advising; flexibility in engineering specialization areas; participation in program evaluation and improvement; study-abroad opportunities; and an option to complete a one-year M.S degree following the undergraduate program.

The cornerstone of the BME program is its **unique, seven-semester design curriculum**. Students take an advising/design project course the freshman year and every semester during the sophomore through senior years. A faculty member advises small teams of students, serving as advisor/consultant/mentor, to guide them through real-world design projects solicited from clients throughout the university, medical profession, industry, and the community. These clients serve as resources for students in their project, conduct discussions, and expose

the students to various aspects of the BME field. Over the course of each semester, teams design, fabricate, and ultimately present a product that meets the needs of the client. This novel approach gives students an exceptionally balanced education by incorporating clinical and biomedical industry experience, thus expanding their network. Overall, the design experiences highlight the very multidisciplinary nature of BME.

Within the program, BME students choose a course of study that emphasizes one of the following four specializations within the field:

1. **Bioinstrumentation** is the application of electronics, computer programming, and measurement principles to develop devices used in diagnosis and treatment of disease. Examples of devices and techniques that have emerged from this discipline include the electrocardiogram, the cardiac pacemaker, blood pressure measurement, brain–computer interface, implantable electrodes, sensors, tumor ablation and other medical devices. Also within the field of bioinstrumentation, micro-electromechanical systems (BioMEMS) can be used to engineer instruments and methods for research at the cellular scale, and neuroengineering applies these principles to study the function of neural systems and the development of implantable technology.
2. **Bioimaging** involves the design and enhancement of systems for noninvasive anatomical, cellular, and molecular imaging. In addition to common imaging techniques such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET), bioimaging includes topics such as biophotonics, optics, and multimode imaging, and is now expanding to serve functional and therapeutic purposes as well. Advanced capabilities result when fundamentals of engineering, physics, and computer science are applied in conjunction with the expertise of clinical collaborators.
3. **Biomechanics** applies engineering mechanics for understanding biological processes and for solving medical problems at systemic, organ, tissue, cellular, and molecular levels. This includes the mechanics of connective tissues (ligament tendon, cartilage and bone) as well as orthopedic devices (fracture fixation hardware and joint prostheses), vascular remodeling (pulmonary hypertension), muscle mechanics with injury and healing, human motor control, neuromuscular adaptation (with age, injury, and disease), microfluidics for cellular applications, cellular motility and adhesion, and rehabilitation engineering (quantifying, adapting and restoring function for those who lost abilities).
4. **Biomaterials/cellular/tissue engineering** involves the characterization and use of structural materials, derived from synthetic or natural sources, to design medical products that safely interact with tissues for therapeutic or diagnostic purposes such as artificial blood vessels, heart valves, orthopedic joints, and drug delivery vehicles. Tissue engineers understand structure–function relationships in normal and pathological tissues to engineer living tissues and/or biological substitutes to restore, maintain, or improve function. At the cellular and molecular level this includes the study or manipulation of biological processes such as the cell's differentiation, proliferation, growth, migration, and apoptosis.

Although the various disciplines within BME can be separately defined, solving a biomedical program requires an overall understanding of the field. For example, the design of an artificial hip requires an understanding of the forces and **biomechanics** of human movement as well as the mechanical and material properties of the prosthetic device. The **material** choice and topography play a critical role in cellular and tissue integration, which ultimately leads to long-term stability of the

implant. In addition, **bioimaging** techniques are required to characterize the morphology of the diseased hip and the success of the procedure. Finally, **instrumentation** devices are utilized during the hip replacement surgery.

Students choose the biomedical engineering field to be of service to people; for the excitement of working with living systems; and to apply advanced technology to the complex problems of medical care. Students in the BME program can expect to develop skills in innovative thinking, critical analysis of ethics, project management, and technical writing, all in an environment that cultivates creativity, teamwork, and curiosity. With many possible focuses within the major, BME students have the opportunity to explore and cultivate their interests in specific topics while applying the concepts of engineering to medical applications, hands-on projects, and cutting-edge research.

Students successfully completing the B.S. degree in BME with an overall GPA of 3.0 or a GPA of 3.25 for the last 60 credits of the B.S. program are eligible to apply for the one-year M.S. degree.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/> apply) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in

residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

## MAJOR REQUIREMENTS

### MATHEMATICS

Code	Title	Credits
MATH 221 & MATH 222 & MATH 234	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2 and Calculus—Functions of Several Variables	13

MATH 320	Linear Algebra and Differential Equations	3
or MATH 319	Techniques in Ordinary Differential Equations	
STAT 324	Introductory Applied Statistics for Engineers	3
or STAT 224	Introductory Statistics for Engineers	
or STAT/ MATH 431	Introduction to the Theory of Probability	

### SCIENCE

Code	Title	Credits
COMP SCI 301	Introduction to Data Programming	3
or COMP SCI 200	Programming I	
or COMP SCI 300	Programming II	
or COMP SCI 310	Problem Solving Using Computers	
E M A 201	Statics (only statics counts for Engineering credits below)	3
or PHYSICS 201	General Physics	
or PHYSICS 207	General Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
CHEM 109	Advanced General Chemistry (or CHEM 103 & CHEM 104)	5
CHEM 343	Introductory Organic Chemistry	3
or CHEM 341	Elementary Organic Chemistry	
CHEM 345 & CHEM 344	Intermediate Organic Chemistry and Introductory Organic Chemistry Laboratory	5
or CHEM 327	Fundamentals of Analytical Science	
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory (or)	5
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology (or)	
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	
PHYSIOL 335	Physiology (or)	5
PHYSIOL 435	Fundamentals of Human Physiology (or)	
BIOCORE 485 & BIOCORE 486	Organismal Biology and Organismal Biology Laboratory	
ANATOMY/ KINES 328	Human Anatomy	3
or ZOOLOGY 430	Comparative Anatomy of Vertebrates	
or ZOOLOGY 470	Introduction to Animal Development	
or ZOOLOGY/ PSYCH 523	Neurobiology	
or ZOOLOGY 570	Cell Biology	
or ZOOLOGY 611	Comparative and Evolutionary Physiology	
or GENETICS 466	Principles of Genetics	
or BIOCORE 587	Biological Interactions	

**GENERAL EDUCATION**

Code	Title	Credits
<i>Communications A</i> 3		
LSC 100	Science and Storytelling	
or COM ARTS 101	Introduction to Speech Composition	
or ENGL 100	Introduction to College Composition	
or ESL 118	Academic Writing II	
<i>Communications B</i>		
E P D 397	Technical Communication	3
or ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
or BIOCORE 384	Cellular Biology Laboratory	
<i>At least 15 credits of liberal studies following the College of Engineering guidelines</i>		15

**ENGINEERING COURSES**

Code	Title	Credits
<i>Introduction to Engineering</i> 2		
INTEREGR 110 & INTEREGR 170	Introduction to Engineering and Design Practicum <sup>1</sup>	
<i>Required engineering mechanics core courses</i>		6
E M A 201	Statics	
E M A 303	Mechanics of Materials	
or M E 306	Mechanics of Materials	
<i>Required BME core courses</i>		18
B M E 200	Biomedical Engineering Design	
B M E 201	Biomedical Engineering Fundamentals and Design	
B M E 300	Biomedical Engineering Design	
B M E 301	Biomedical Engineering Design	
B M E 310	Bioinstrumentation	
B M E 315	Biomechanics	
B M E 400	Capstone Design Course in Biomedical Engineering	
B M E 402	Biomedical Engineering Design	
B M E/ PHM SCI 430	Biological Interactions with Materials	
<i>Engineering area technical electives (see below)</i>		15
<i>One advanced BME technical elective from any area selected from an approved list of courses</i>		3
<i>Engineering technical elective: Any engineering course(s) from a degree-granting engineering program<sup>2</sup></i>		4

- <sup>1</sup>
- Both INTEREGR 110 Introduction to Engineering and INTEREGR 170 Design Practicum are required.
  - INTEREGR 170 counts toward the required 48 engineering credits.
  - INTEREGR 110 counts as a general degree credit, not as an engineering credit.

- <sup>2</sup>
- EPD courses are not included in this category
  - InterEGR courses are not included in this category except INTEREGR 301 Engineering and Biology: Technological Symbiosis.
  - Only 3 credits of an engineering independent study may count (e.g., B M E 399 Independent Study, B M E 489 Honors in Research, CBE 699 Advanced Independent Studies, etc.).

- Special topics courses must have prior approval of the BME Curriculum Committee.

**BIOMEDICAL ENGINEERING AREA TECHNICAL ELECTIVE REQUIREMENTS**

Choose 15 credits of area technical electives in one of the following tracks and at least one advanced BME elective:

**Bioinstrumentation:**

Code	Title	Credits
<b>Required Area Elective</b>		
E C E 230	Circuit Analysis	4
<b>Area Electives in Bioinstrumentation</b>		11
Choose from any ECE course and from the advanced BME area electives in Bioinstrumentation		
<b>Advance BME Area Technical Electives in Bioinstrumentation</b>		
B M E/E C E 462	Medical Instrumentation	3
B M E/E C E 463	Computers in Medicine	3
B M E/ MED PHYS 535	Introduction to Energy-Tissue Interactions	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3

**Biolmaging:**

Code	Title	Credits
<b>Required Area Elective</b>		
E C E 330	Signals and Systems	3
<b>Area Electives in Biolmaging</b>		12
Choose from the following and from the advanced BME area electives in Biolmaging		
E C E 203	Signals, Information, and Computation	3
E C E 331	Introduction to Random Signal Analysis and Statistics	3
E C E/COMP SCI 533	Image Processing	3
B M E/H ONCOL/ MED PHYS/ PHYSICS 501	Radiological Physics and Dosimetry	3
B M E/ MED PHYS 566	Physics of Radiotherapy	4
B M E/ MED PHYS 567	The Physics of Diagnostic Radiology	4
B M E/ MED PHYS 573	Medical Image Science: Mathematical and Conceptual Foundations	3
B M E/ MED PHYS 574	Imagine in Medicine: Applications	3
N E 305	Fundamentals of Nuclear Engineering	3
N E 408	Ionizing Radiation	3
N E 427	Nuclear Instrumentation Laboratory	2
<b>Advanced BME Area Technical Electives in Biolmaging</b>		



B M E/ MED PHYS 530	Medical Imaging Systems	3
B M E/ MED PHYS 578	Non-Ionizing Diagnostic Imaging	3
B M E/ANATOMY/ CHEM/MED PHYS/ PHMCOL-M/ PHYSICS/ RADIOL 619	Microscopy of Life	3
B M E/CHEM/ MED PHYS 650	Biological Optical Microscopy	3

**Biomechanics:**

Code	Title	Credits
<b>Required Area Elective</b>		
E M A 202	Dynamics	3
or M E 240	Dynamics	
<b>Area Electives in Biomechanics</b>		12
Choose from any ME or EMA course and from the advanced BME area electives in Biomechanics		
<b>Advanced BME Area Technical Electives</b>		
B M E 505	Biofluidics	3
B M E/I SY E 564	Occupational Ergonomics and Biomechanics	3
B M E/M E 603	Topics in Bio-Medical Engineering	1-3
B M E 615	Tissue Mechanics	3

**Biomaterials/Cell/Tissue Engineering:**

Code	Title	Credits
<b>Required Area Elective</b>		
B M E/CBE 330	Engineering Principles of Molecules, Cells, and Tissues	3-4
or B M E/CBE 320	Introductory Transport Phenomena	
<b>Area Electives in Biomaterials/Cell/Tissue Engineering</b>		12
Choose from any CBE or MS&E course, the courses below, and from the advanced BME area electives in Biomaterials/Cell/Tissue Engineering		
M E 417	Introduction to Polymer Processing	3
M E 418	Engineering Design with Polymers	3
B M E 511	Tissue Engineering Laboratory	1
<b>Advanced BME Area Technical Electives in Biomaterials/Cell/Tissue Engineering</b>		
B M E/CBE 510	Introduction to Tissue Engineering	3
B M E/CBE 520	Stem Cell Bioengineering	3
B M E 545	Engineering Extracellular Matrices	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3
B M E/CBE 560	Biochemical Engineering	3
B M E 615	Tissue Mechanics	3
B M E/CHEM/ MED PHYS 650	Biological Optical Microscopy	3

**TOTAL DEGREE CREDITS: AT LEAST 128****UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

At the time of graduation, UW-Madison Biomedical Engineering students will have attained:

(a) an ability to apply knowledge of mathematics (including differential equations and statistics), science, and engineering to solve problems at the interface of engineering and biology.

(b) an ability to design and conduct experiments (including making measurements) on, as well as to analyze and interpret data from living systems; addressing the problems associated with the interaction between living and non-living materials and systems.

(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

(d) an ability to function on multidisciplinary and diverse teams and provide leadership.

(e) an ability to identify, formulate, and solve biomedical engineering problems.

(f) an understanding of professional and ethical responsibility.

(g) an ability to communicate effectively: by oral, written and graphic modes.

(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

(i) a recognition of the need for, and an ability to engage in life-long learning.

(j) a knowledge of contemporary issues.

(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

(l) and an understanding of biology, human physiology, and chemistry as related to biomedical engineering needs.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
INTEREGR 110 <sup>1</sup>	1 INTEREGR 170 <sup>1</sup>	2
MATH 221	5 MATH 222	4
CHEM 109 (or CHEM 103 & Chem 104) <sup>2, Med</sup>	5 E M A 201, PHYSICS 201, or PHYSICS 207 <sup>3, Med</sup>	3
Communications A	3 CHEM 343 or 341 <sup>4, Med</sup>	3
	Liberal Studies Elective <sup>M</sup>	3
	14	15

#### Second Year

Fall	Credits Spring	Credits
B M E 200 <sup>5</sup>	1 B M E 201	2
MATH 234	4 CHEM 345 or 327 <sup>4, Med</sup>	3
PHYSICS 202 or 208 <sup>Med</sup>	5 B M E 310 <sup>7</sup>	3
Select one of the following options:	5 MATH 320 or 319	3
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Select one of the following options (recommended for premeds) or select from EPD 397 third year.	5
ZOOLOGY/BIOLOGY/ BOTANY 151 (or) <sup>Med</sup>	ZOOLOGY/BIOLOGY/ BOTANY 152 <sup>Med</sup>	
BIOCORE 381 & BIOCORE 382 (the first lab-382-is recommended not required) <sup>6, Med</sup>	BIOCORE 383 & BIOCORE 384 <sup>Med</sup>	
	15	16

#### Third Year

Fall	Credits Spring	Credits
B M E 300 <sup>5</sup>	1 B M E 301 <sup>5</sup>	1
E M A 303 or M E 306	3 E P D 397 (If Zoology 152 or Biocore 384 is not taken) <sup>8</sup>	3
CHEM 344 (or Chem 327 in second year) <sup>Med</sup>	2 Advanced Zoology Elective, Select one of the following:	3
PHYSIOL 335 (or) <sup>Med</sup>	5 ANATOMY/ KINES 328	
PHYSIOL 435 (or) <sup>Med</sup>	GENETICS 466	
BIOCORE 485 & BIOCORE 486 <sup>Med</sup>	ZOOLOGY 430	
B M E 315 <sup>7</sup>	3 ZOOLOGY 470	
Area-Required Engineering Technical Elective	3 ZOOLOGY/ PSYCH 523	

E C E 230	ZOOLOGY 570	
E C E 330	ZOOLOGY 611	
E M A 202 or M E 240	BIOCORE 587	
B M E/CBE 330 or 320	Liberal Studies Elective <sup>Med</sup>	4
	B M E/PHM SCI 430 <sup>7</sup>	3
	Area-Engineering Technical Elective	3
	17	17

#### Fourth Year

Fall	Credits Spring	Credits
B M E 400	3 B M E 402 <sup>5</sup>	1
STAT 324, 224, or 431 <sup>Med</sup>	3 Liberal Studies Elective <sup>Med</sup>	3
COMP SCI 301	3 Liberal Studies Elective	3
Liberal Studies Elective	2 Engineering Technical Elective	4
Area-Engineering Technical Elective	3 Advanced Biomedical Engineering Technical Elective	3
Area-Engineering Technical Elective	3 Area-Engineering Technical Elective	3
	17	17

Total Credits 128

### FOOTNOTES

Med—These courses are identified as requirements for most medical schools and are included within the 128 degree credits. Students not wishing to attend medical school may choose other listed options. Choosing other options (such as CHEM 103/CHEM 104 vs. CHEM 109 or E P D 397 vs. ZOOLOGY/BIOLOGY/BOTANY 152) will affect the total number of credits.

Medical schools have varying requirements. Liberal electives, free electives, and zoology electives can often be used to satisfy these.

**Check requirements early.** For example, to prepare for the MCAT it is recommended that students take psychology and sociology.

In addition, UW—Madison and others require an intermediate humanities or social science with an intensive writing component (Comm B). All these can be fulfilled within the liberal studies requirements and thus early planning starting freshman year is important. A good resource is: <http://prehealth.wisc.edu/>.

<sup>1</sup> INTEREGR 110 Introduction to Engineering and INTEREGR 170 Design Practicum are both required. Only INTEREGR 170 counts toward the required 48 engineering credits. INTEREGR 110 is required only for students directly admitted to engineering programs as freshman.

<sup>2</sup> CHEM 103 General Chemistry I & CHEM 104 General Chemistry II may be substituted for CHEM 109 Advanced General Chemistry. For this choice, the excess 4 credits are counted as free electives. Most medical schools require one year of basic chemistry. UW—Madison's medical school (and others) accepts CHEM 109 as a full-year equivalent.

<sup>3</sup> If PHYSICS 201 General Physics is chosen instead of E M A 201 Statics, another engineering course from a degree-granting engineering program must be substituted for E M A 201 Statics. The excess 5 credits from PHYSICS 201 General Physics are counted as free elective credits. PHYSICS 207 General

Physics–PHYSICS 208 General Physics may be used to substitute for PHYSICS 201–PHYSICS 202.

4 CHEM 341 Elementary Organic Chemistry may be substituted by those students who are not interested in satisfying premed requirements and who expect to take only one semester of organic chemistry (CHEM 341 is not permitted as a prerequisite for CHEM 344 Introductory Organic Chemistry Laboratory/CHEM 345 Intermediate Organic Chemistry).

Either CHEM 344/CHEM 345 or CHEM 327 Fundamentals of Analytical Science (or CHEM 329 Fundamentals of Analytical Science) is required.

Premeds or students interested in biomaterials/cellular/tissue engineering should choose to take CHEM 343, CHEM 344 and CHEM 345.

5 Students who are admitted late to the program and/or students who take part in another experience (such as co-op and/or study abroad) missing B M E 200 Biomedical Engineering Design, B M E 300, B M E 301, or B M E 402 may substitute for up to two of these course for the semester they are not in the program or at UW-Madison.

Approved substitutions include: B M E 1 Cooperative Education Program 1 cr, engineering research credit, or any 200-level or above additional engineering technical elective lab experience.

For more information on the unique design sequence see: <http://bmedesign.engr.wisc.edu/about/>.

6 Students very serious about medical school and learning about biology may select to apply for BIOCORE, a rigorous biology honors program:

- BIOCORE 381 Evolution, Ecology, and Genetics
- BIOCORE 382 Evolution, Ecology, and Genetics Laboratory
- BIOCORE 383 Cellular Biology
- BIOCORE 384 Cellular Biology Laboratory
- BIOCORE 485 Organismal Biology
- BIOCORE 486 Organismal Biology Laboratory

The BIOCORE courses have limited enrollment and students must be accepted into this program (applying as freshman). It is generally advisable to complete the entire sequence once it is started.

Only BIOCORE 382 Evolution, Ecology, and Genetics Laboratory is not required and is not necessary to fulfill premed requirements; however, it is recommended as it has been helpful in understanding the BIOCORE lab process. If all the other BIOCORE courses are taken (a total of 16 cr), this will replace the ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory, the Advanced Life Science Elective, PHYSIOL 335 Physiology, and E P D 397 Technical Communication.

7 The three core courses are all required: B M E 310 Bioinstrumentation, B M E 315 Biomechanics, B M E/PHM SCI 430 Biological Interactions with Materials, but they can be taken in any order. It is recommended that students take one in the track of interest first, or as early as possible.

8 ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology, which satisfies Communication Part B, may be substituted for E P D 397 Technical Communication. For the Biocore program, BIOCORE 384 Cellular Biology Laboratory substitutes for E P D 397 Technical Communication.

Students interested in going to medical school should use this space/credits for BIOCHEM 501 Introduction to Biochemistry which is required for the MCAT.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### FACULTY

Williams (chair)  
Ashton  
Beebe  
Block  
Brace  
Campagnola  
Chesler  
Gong  
Huisken  
Keely  
Kreeger  
Li  
McClellan  
Masters  
Meyerand  
Murphy  
Rogers  
Saha  
Skala  
Thelen  
Tompkins  
Vanderby  
Webster

### INSTRUCTIONAL STAFF AND FACULTY ASSOCIATES

Nimunkar  
J. Puccinelli  
T. Puccinelli  
Suminski  
Towles  
Tyler

See also the BME Directory (<http://directory.engr.wisc.edu/bme>).

## CHEMICAL AND BIOLOGICAL ENGINEERING

Chemical engineers exploit advances in chemistry and biology to create new products, design chemical processes, develop energy resources, and protect the environment. Students receive a thorough grounding in chemistry, biology, mathematics and physics. With this broad scientific training, chemical engineers work effectively on a diverse set of problems involving chemical, physical, and biological phenomena. For example, chemical engineers develop environmentally benign and safe processes to make the chemical products that people depend on. They work in research and development laboratories, creating polymeric materials with improved performance and durability. They work in manufacturing, making vaccines and antibiotics. They invent new ways to keep our food and water supplies safe. Opportunities for chemical engineers span numerous industries: pharmaceuticals, polymers, energy, food, consumer products, biotechnology, and electronic and optical materials. Graduates understand the needs of society, and use their training in science and technology to meet those needs.

The chemical engineering program develops the student's capability for invention and analysis of chemical processes and products. Students in the program take several classes in chemistry, along with courses in physics, mathematics, and biology. The curriculum provides a rigorous education in the fundamental chemical engineering sciences of thermodynamics, transport phenomena, and kinetics, as well as more applied areas such as materials science, biochemical engineering, or chemical process design. Because engineers must be skilled communicators, the curriculum places considerable emphasis on technical report writing, team projects, and formal and informal oral presentation. In addition, students broaden their understanding of people and society by taking several courses in the humanities and social sciences.

The B.S. program in chemical engineering leads to a wide variety of careers. Graduates are prepared for professional lives in industry, government, engineering design, or consulting companies. Graduates with a more practical, hands-on approach are employed in manufacturing support, process development, product development, design, construction, or technical sales. They rapidly advance to responsible technical supervisory and management positions. Graduates with a research interest work to improve understanding of scientific engineering principles, and to apply these principles to solve emerging problems. Entrepreneurial graduates work in smaller enterprises, or create their own businesses, developing the major industries of tomorrow. An undergraduate degree in chemical engineering provides a strong basis for advanced study in graduate school, or for further training in medicine, law, or policy.

### DEGREES/MAJORS/CERTIFICATES

- Chemical Engineering, B.S. (p. 212)

### PEOPLE

#### PROFESSORS

Abbott

Dumesic  
Graham  
Huber  
Klingenberg  
Kuech  
Lynn  
Maravelias  
Mavrikakis (chair)  
Murphy  
Palacek  
Rawlings  
Root  
Shusta  
Yin

#### ASSOCIATE PROFESSORS

Pfleger  
Reed  
Swaney

#### ASSISTANT PROFESSORS

Van Lehn  
Zavala Tejada

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

For information about scholarships, see [Scholarships@UW-Madison](mailto:Scholarships@UW-Madison) (<https://scholarships.wisc.edu/Scholarships>).

### FACILITIES

Facilities available for instruction and research include:

Biochemical Process Lab  
Electrochemistry Lab  
Plastics Lab  
Process Dynamics and Control Lab  
Research Labs  
Transport Phenomena Lab  
Unit Operations Lab  
Biochemical Process Lab  
Electrochemistry Lab  
Plastics Lab Process  
Dynamics and Control Lab  
Research Labs  
Transport Phenomena Lab  
Unit Operations Lab

## CHEMICAL ENGINEERING, B.S.

Chemical engineers exploit advances in chemistry and biology to create new products, design chemical processes, develop energy resources, and protect the environment. Students receive a thorough grounding in chemistry, biology, mathematics and physics. With this broad scientific training, chemical engineers work effectively on a diverse set of problems involving chemical, physical, and biological phenomena. For example, chemical engineers develop environmentally benign and safe processes to make the chemical products that people depend on. They work in research and development laboratories, creating polymeric materials with improved performance and durability. They work in manufacturing,

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## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by

stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

The following curriculum applies to students admitted to the chemical engineering degree program.

**SUMMARY OF REQUIREMENTS**

Code	Title	Credits
Mathematics		19
Physics		10
Chemistry		20
Life Science		6
Core Engineering Requirement		48
Professional Breadth		6
Communication Skills		2
Liberal Studies Requirement		16
Free Electives		6
<b>Total Credits</b>		<b>133</b>

**MATHEMATICS REQUIREMENT**

Transfer students must have equivalent math courses to meet the calculus requirement with a minimum of 12 credits to cover the three-course basic math sequence. Any deficiency in total math credits must be made up with electives in science or engineering.

Code	Title	Credits
MATH 221 or MATH 217 or MATH 275	Calculus and Analytic Geometry 1 Calculus with Algebra and Trigonometry II Topics in Calculus I	5
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	4
MATH 234	Calculus—Functions of Several Variables	4
MATH 320 or MATH 319	Linear Algebra and Differential Equations Techniques in Ordinary Differential Equations	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>19</b>

**PHYSICS REQUIREMENT**

Transfer students who receive fewer than 6 credits for the required courses must make up the credit shortage with another physics course.

Code	Title	Credits
PHYSICS 201 or PHYSICS 207	General Physics General Physics	5
PHYSICS 202 or PHYSICS 208	General Physics General Physics	5
<b>Total Credits</b>		<b>10</b>

**CHEMISTRY REQUIREMENT**

Credit shortages cause by transfer of freshman chemistry courses at fewer than 9 credits must be made up with chemistry, biochemistry, or chemical engineering courses.

Code	Title	Credits
<i>General Chemistry (choose one)</i>		5
CHEM 109	Advanced General Chemistry ((preferred))	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 329	Fundamentals of Analytical Science	4
CHEM 343 & CHEM 345 & CHEM 344	Introductory Organic Chemistry and Intermediate Organic Chemistry and Introductory Organic Chemistry Laboratory	8
CHEM 562	Physical Chemistry	3
<b>Total Credits</b>		<b>20</b>

**LIFE SCIENCE**

Students who meet the Introductory Biology requirement with an AP exam are encouraged to take two advanced biology electives.<sup>1</sup>

Code	Title	Credits
<i>Introductory Biology requirement (choose one)</i>		3
ZOOLOGY 153	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
<i>Advanced Biology requirement (choose one)</i>		3
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
ZOOLOGY 570	Cell Biology	
GENETICS 466	Principles of Genetics	
MICROBIO 303	Biology of Microorganisms	
<b>Total Credits</b>		<b>6</b>

<sup>1</sup> BIOCORE 381 Evolution, Ecology, and Genetics and BIOCORE 383 Cellular Biology may be used to satisfy the Life Sciences Requirements.

**CORE ENGINEERING REQUIREMENT**

Code	Title	Credits
CBE 250	Process Synthesis	3
CBE 255	Introduction to Chemical Process Modeling	3
CBE 310	Chemical Process Thermodynamics	3
CBE 311	Thermodynamics of Mixtures	3
CBE/B M E 320	Introductory Transport Phenomena	4

CBE 324	Transport Phenomena Lab	3
CBE 326	Momentum and Heat Transfer Operations	3
CBE 424	Operations and Process Laboratory	5
CBE 426	Mass Transfer Operations	3
CBE 430	Chemical Kinetics and Reactor Design	3
<i>Select one of the following:</i>		3
CBE 440	Chemical Engineering Materials	
CBE 540	Polymer Science and Technology	
CBE/E C E/ M S & E 544	Processing of Electronic Materials	
CBE 547	Introduction to Colloid and Interface Science	
CBE 450	Process Design	3
CBE 470	Process Dynamics and Control	3
CBE Electives <sup>2</sup>		6
Total Credits		48

<sup>2</sup> Chemical engineering electives may be chosen from any of the chemical engineering courses that are not required, with the exception of CBE/CHEM/E M A/M E 425 Undergraduate Rheology Seminar. A maximum of 2 credits of co-op work (CBE 1 Cooperative Education Program) may be applied to meet the CBE elective requirement. BSE/FOOD SCI 542 Food Engineering Operations and BSE/FOOD SCI 642 Food and Pharmaceutical Separations can be taken as CBE elective courses. Qualified undergraduates may take graduate-level (600 or 700) courses to fulfill this requirement. Engineering elective courses are to be selected from the College of Engineering (preferably outside chemical engineering). At least 1 of the 3 credits must be obtained from a list of approved courses in the *CBE Curriculum Guide* that carry engineering topics credits. A maximum of 6 credits of CBE 599 Special Problems and/or CBE 699 Advanced Independent Studies may be used to satisfy the 9-credit sequence of CBE and engineering elective courses.

## PROFESSIONAL BREADTH

Select 6 credits

Code	Title	Credits
<b>Professional Breadth Credits <sup>3</sup></b>		6
<i>Courses 300+ from the following College of Engineering departments and programs may be used:</i>		
	Biomedical Engineering	
	Civil and Environmental Engineering	
	Electrical and Computer Engineering	
	Engineering Mechanics and Astronautics	
	Engineering Professional Development (200 level and higher)	
	Geological Engineering	
	Industrial Engineering	
	Interdisciplinary Courses (200 level and higher)	
	Materials Science and Engineering <sup>4</sup>	
	Mechanical Engineering	
	Nuclear Engineering	
	Engineering Physics	

*Courses 300+ from the following departments in the College of Letters and Sciences may be used:*

Chemistry		
Computer Sciences		
Math		
Physics		
<i>The following courses may also be used:</i>		
ACCT I S 300	Accounting Principles	
MICROBIO 303	Biology of Microorganisms	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BSE/ FOOD SCI 642	Food and Pharmaceutical Separations	
ECON/A A E/ ENVIR ST 343	Environmental Economics	
ENVIR ST/ PHILOS 441	Environmental Ethics	
FINANCE/ ECON 300	Introduction to Finance	
GENETICS 466	Principles of Genetics	
HIST SCI 337	History of Technology	
STAT/M E 424	Statistical Experimental Design	
ZOOLOGY 570	Cell Biology	
Total Credits	6	

Students may petition the department to allow other courses related to engineering professional practice. To request that a course not listed above be used, the student should fill out the Professional Breadth Requirement Course Request form available online and submit it to the advisor. The department will then determine if the course can be counted toward the Professional Breadth Requirement. Petitions must be submitted before the beginning of the semester in which the course is to be taken.

<sup>3</sup> The objective of this requirement is to provide students with skills to interact with professionals from other disciplines. Suitable courses for this requirement include courses in engineering (excluding CBE) and science, as well as a variety of other disciplines.

<sup>4</sup> Full degree credit is not allowed if a student takes both CBE 440 Chemical Engineering Materials and M S & E 350 Introduction to Materials Science. In this case M S & E 350 will be awarded only 1 degree credit.

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition <sup>5</sup>	3
	or COM ARTS 100 Introduction to Speech Composition	
	or LSC 100 Science and Storytelling	
	or ESL 118 Academic Writing II	

<sup>5</sup> For Part A of the General Education Communication Requirement (2 cr) students must select one course with an "a" designation in "g" of the "geBLC" information in the Course Guide. Some students will be

exempt from this requirement based on their placement test scores or advanced placement in English.

CBE 424 Operations and Process Laboratory satisfies Part B of the General Education Communication Skills Requirement.

## LIBERAL STUDIES ELECTIVES

Students must complete 16 credits of liberal studies according to the College of Engineering requirements<sup>6</sup>.

- <sup>6</sup>
1. Liberal studies elective courses must be classified as either Humanities, Social Studies, or Literature courses (identified by the letters H, S, L, or Z in "B" of the "geBLC" information in the Course Guide). At least 6 credits must have a breadth designation of Humanities (H, L, or Z), and at least 3 credits must have a designation of Social Studies (S or Z). Foreign language courses count as H credits.
  2. A 3-credit ethnic studies course must be selected from the College of Letters & Science. Acceptable courses are identified by the letter "e" in the Course Guide. If appropriate, the ethnic studies course may be among those used to satisfy the concentration requirement.
  3. Retroactive credits may be awarded for foreign-language work done in high school. The following conditions apply:
    - A university-level foreign language course must be taken before the student has earned 30 college credits in residence.
    - Retroactive Language Credit Request Form must be completed and submitted to the language instructor during the first two weeks of class.
    - The student must earn a B or better in this course.
    - Such credits do not count toward the 16 liberal-studies credits required. They may, however, be used to satisfy the concentration and depth requirements stated in item 2 above and count as degree credits.
  4. English composition courses, English as a second language courses, and basic communications arts courses are not accepted as liberal studies electives.

## FREE ELECTIVES

Students can choose any combination of courses totaling 6 credits<sup>7</sup>.

- <sup>7</sup>
- Students who satisfy the Communications Part A requirement by examination will have an additional 2 credits of free electives. Transfer students who receive fewer transfer credits for a required course than are given for the same course on the Madison campus must increase their free elective credits to meet the minimum 133 total credit requirement for the chemical engineering degree.

## COURSE SUBSTITUTION REGULATIONS

1. Any student may, with advisor approval, replace up to 12 credits of required courses in the curriculum, except CBE 424 Operations and Process Laboratory, by an equal number of credits of other courses within the limitations listed under (3) below.
2. Any student who wishes to amend the curriculum by more than 12 credits or wishes to appeal the advisor's decision in (1) or to request exception to (3) below must submit a written request to the chair of the department, who will bring it to the department faculty for consideration.
3. Restrictions on course substitutions are as follows:
  - a. Physics course may be replaced by science or engineering courses.
  - b. Chemistry/life science courses must be replaced by courses with significant chemistry/life science content.
  - c. Engineering courses must be replaced by engineering courses.

- d. Lab courses must be replaced by courses with an equal number of hours of lab courses.
- e. English as a second language courses, and MATH 112, MATH 113 and MATH 114 may not be used for course substitutions.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

At the time of graduation, UW-Madison Chemical Engineering students will have attained:

- a. an ability to apply knowledge of mathematics, science, and engineering.
- b. an ability to design and conduct experiments, as well as to analyze and interpret data.
- c. an ability to design a system, component, or process to meet desired needs within realistic constraints.
- d. an ability to function on multi-disciplinary teams.
- e. an ability to identify, formulate, and solve engineering problems.
- f. an understanding of professional and ethical responsibility.
- g. an ability to communicate effectively.
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i. a recognition of the need for, and an ability to engage in life-long learning.
- j. a knowledge of contemporary issues.
- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- l. ability with engineering application of the basic sciences to the design, analysis, and control of chemical, physical, and biological processes, including the hazards associated with these processes.



## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
CHEM 109	5 CHEM 329	4
MATH 221	5 MATH 222	4
INTEREGR 110	1 PHYSICS 201	5
Communications A	3 Liberal Studies Elective	3
Liberal Studies Elective	3	
	17	16

#### Second Year

Fall	Credits Spring	Credits
CBE 250 <sup>1</sup>	3 CBE 255	3
CHEM 343 <sup>2</sup>	3 MATH 320 or 319	3
MATH 234	4 CBE 310	3
PHYSICS 202	5 CHEM 345 & CHEM 344	5
ZOOLOGY 153	3 STAT 324	3
	18	17

#### Third Year

Fall	Credits Spring	Credits
CBE 311	3 CBE 326	3
CBE/ B M E 320 <sup>1</sup>	4 CBE 324	3
Professional Breadth Elective	3 CHEM 562	3
Advanced Biology Elective	3 Professional Breadth Elective	3
Liberal Studies Elective	3 Liberal Studies Elective	3
	16	15

#### Fourth Year

Fall	Credits Spring	Credits Summer	Credits
CBE 426	3 CBE 450	3 CBE 424	5
CBE 430	3 CBE 470	3	
CBE Elective	3 CBE Elective	3	
Materials Elective	3 Free Elective	3	
Liberal Studies Elective	3 Free Elective	2	
	15	14	5

Total Credits 133

<sup>1</sup> CBE 250 Process Synthesis and CBE/B M E 320 Introductory Transport Phenomena both require a grade of C or better.

<sup>2</sup> CHEM 343 Introductory Organic Chemistry requires a grade of C or better.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Abbott  
Dumesic  
Graham  
Huber  
Klingenberg  
Kuech  
Lynn  
Maravelias  
Mavrikakis (chair)  
Murphy  
Palacek  
Rawlings  
Root  
Shusta  
Yin

### ASSOCIATE PROFESSORS

Pflegler  
Reed  
Swaney

### ASSISTANT PROFESSORS

Van Lehn  
Zavala Tejada

## CIVIL AND ENVIRONMENTAL ENGINEERING

The Department of Civil and Environmental Engineering offers an ABET-accredited B.S. degree in civil engineering and M.S. and Ph.D. degrees in

civil and environmental engineering. The B.S. degree in civil engineering may be accompanied by an option in environmental engineering, fluid systems engineering, or in construction engineering and management.

Civil engineers have been and still are the builders of our world, involved in the planning of our cities, communities, and larger regional areas. They are responsible for the conception, design, and construction of public works such as highways, streets, bridges, drinking water distribution systems, wastewater collection systems, drinking water and wastewater treatment plants, stormwater management systems, dams, reservoirs, power production, navigation and recreation, as well as the buildings, theaters, stadiums, factories and airports in which we live, work, and play.

The environment has long been the province and concern of civil engineers. Thus, civil engineers are continuously responding to society's ecological and environmental problems by joining with other engineers, as well as with physical, biological, chemical, and social scientists, to protect our natural resources and to create a sustainable physical and social environment for all people. Civil engineers are aware of the complexities of these problems and that they cannot merely focus on building and construction; they must understand the impact of engineering designs on society and the environment, and be prepared to play a vital role on interdisciplinary environmental teams.

The Department of Civil and Environmental Engineering offers a curriculum that provides a balanced program of technical and nontechnical courses to meet the needs of students interested in studying civil and environmental engineering. The curriculum includes basic courses in mathematics, chemistry, physics, biology, earth sciences, engineering sciences, as well as the fundamentals of civil engineering in the areas of structural engineering, geotechnical engineering, construction engineering and management, transportation engineering, land information and surveying, water resources engineering and environmental engineering. Students may then choose elective courses in multiple areas or specialize in one or more areas of interest. Also, the department cooperates with interdisciplinary programs at both the undergraduate and graduate levels, including business, environmental studies, water resources management, oceanography and limnology, land resources, environmental monitoring, geological engineering, and environmental chemistry and technology.

In view of the increasing demands of modern technology, the traditional undergraduate curriculum can only offer the fundamentals of civil and environmental engineering to the student. Qualified undergraduates are encouraged to pursue the civil and environmental engineering master's degree program as a means of incorporating additional courses on engineering analysis, design, and synthesis into their academic studies. The undergraduate degree is also sufficiently broad to prepare students for advanced degrees in other fields such as law, medicine, public health, and business.

## DEGREES/MAJORS/CERTIFICATES

- Civil Engineering, B.S. (p. 218)
- Geological Engineering, B.S. (p. 225)

## PEOPLE

### PROFESSORS

Noyce (chair)  
Adams

Bahia  
Cramer  
Hanna  
Harrington  
Likos  
McMahon  
Noguera  
Park  
Parra-Montesinos  
Ran  
Russell  
Schauer  
Wu

### ASSOCIATE PROFESSORS

Ahn  
Fratta  
Hurley  
Loheide  
Pincheira

### ASSISTANT PROFESSORS

Block  
Ginder-Vogel  
Hedegaard  
Hicks  
Prabhakar  
Remucal  
Sone  
Wright

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available include modern and fully equipped laboratories for instruction and research in the following areas:

Environmental Engineering  
Fluid Mechanics  
Geoengineering  
Hydraulics  
Data Acquisition and Analysis  
Structures and Materials Testing  
Transportation Engineering  
Environmental Chemistry and Technology

## CIVIL ENGINEERING, B.S.

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Civil engineers have been and still are the builders of our world, involved in the planning of our cities, communities, and larger regional areas. They are responsible for the conception, design, and construction of public works such as highways, streets, bridges, drinking water distribution systems, wastewater collection systems, drinking water and wastewater treatment plants, stormwater management systems, dams, reservoirs,

power production, navigation and recreation, as well as the buildings, theaters, stadiums, factories and airports in which we live, work, and play.

The environment has long been the province and concern of civil engineers. Thus, civil engineers are continuously responding to society's ecological and environmental problems by joining with other engineers, as well as with physical, biological, chemical, and social scientists, to protect our natural resources and to create a sustainable physical and social environment for all people. Civil engineers are aware of the complexities of these problems and that they cannot merely focus on building and construction; they must understand the impact of engineering designs on society and the environment, and be prepared to play a vital role on interdisciplinary environmental teams.

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## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/> apply) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements

are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

The following curriculum applies to students who were admitted to the civil engineering degree program (classification changed to CEE) in fall 2016 or later

**Summary of Requirements**

Code	Title	Credits
	Introduction to Engineering	3
	Mathematics and Statistics	19
	Basic Science	16
	Engineering Mechanics	10
	Civil Engineering Mechanics	6
	Civil Engineering Tools	6
	Civil Engineering Breadth	21
	Civil Engineering Design	10
	Civil Engineering Electives	12
	Communications	8
	Liberal Studies	16
	Free Electives	1
	<b>Total Credits</b>	<b>128</b>

**INTRODUCTION TO ENGINEERING**

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
	<b>Total Credits</b>	<b>3</b>

**MATHEMATICS AND STATISTICS REQUIREMENT**

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
	<i>One of the following courses:</i>	<b>3</b>
STAT 324	Introductory Applied Statistics for Engineers	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I <sup>1</sup>	

*One of the following advanced mathematics courses:* 3

MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations	
	<b>Total Credits</b>	<b>19</b>

<sup>1</sup> For students who take STAT 311 Introduction to Theory and Methods of Mathematical Statistics I, which is 4 credits, the excess credit may be used in the Applied Engineering Requirement.

**BASIC SCIENCE REQUIREMENT**

Code	Title	Credits
	<i>One of the following:</i>	<b>5</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
	<i>One of the following:</i>	<b>5</b>
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
	<i>One of the following:</i>	<b>3</b>
GEOSCI 100	General Geology	
GEOSCI/ ENVIR ST 106	Environmental Geology	
	<i>One of the following:</i>	<b>3</b>
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY 153	Introductory Biology	
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology	
MICROBIO 101	General Microbiology	
	<b>Total Credits</b>	<b>16</b>

**ENGINEERING MECHANICS REQUIREMENT**

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E M A/M E 307	Mechanics of Materials Lab	1
	<b>Total Credits</b>	<b>10</b>

**CIVIL ENGINEERING MECHANICS REQUIREMENT**

Code	Title	Credits
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR/E M A 395	Materials for Constructed Facilities	3
	<b>Total Credits</b>	<b>6</b>

**CIVIL ENGINEERING TOOLS REQUIREMENT**

Code	Title	Credits
M E 170	Civil Engineering Graphics	2
or M E 231	Introductory Engineering Graphics	

CIV ENGR XXX: Engineering Spatial Measurements <sup>1</sup>	2
CIV ENGR XXX: Problem Solving Using Computer Tools <sup>1</sup>	2
<b>Total Credits</b>	<b>6</b>

<sup>1</sup> Course numbers to be determined.

## CIVIL ENGINEERING BREADTH REQUIREMENT

Code	Title	Credits
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/G L E 330	Soil Mechanics	4
CIV ENGR 340	Structural Analysis I	4
CIV ENGR 370	Transportation Engineering	3
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3
CIV ENGR 498	Construction Project Management	3
<b>Total Credits</b>		<b>23</b>

## CIVIL ENGINEERING DESIGN REQUIREMENT

Code	Title	Credits
CIV ENGR 578	Senior Capstone Design	4
Every student must take at least one class in at least two of the following CEE disciplines, for a total of 6 credits. One of the two classes MUST be completed BEFORE taking CIV ENGR 578 Senior Capstone Design.		6

### Water Resources

CIV ENGR 414	Hydrologic Design	
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### Environmental

CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	

### Structural

CIV ENGR 442	Wood Structures I	
CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	
CIV ENGR 641	Highway Bridges	

### Geological

CIV ENGR/G L E 530	Seepage and Slopes	
CIV ENGR/G L E 531	Retaining Structures	
CIV ENGR/G L E 532	Foundations	

### Transportation

CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	

Note: If a student takes three or more courses from the above list, two of those courses will count toward this civil engineering design requirement and the other classes will count towards the electives requirement (see section below).

**Total Credits** 10

## ENGINEERING ELECTIVES REQUIREMENT

- Students must take at least 3 credits of coursework from an ABET-accredited degree-granting program outside of the Bachelor of Science in Civil Engineering program. InterEGR and EPD courses do not qualify for meeting this requirement; any courses cross-listed with Civil Engineering (CEE) do not qualify for meeting this requirement.
- Students must take at least 3 credits of CEE coursework in addition to the civil engineering design requirement. **Note:** Students in the Construction Engineering Management or Environmental option programs must select from a set of CIV ENGR courses approved for those options. <sup>1,2</sup>
- Students must take at least 6 credits of coursework that meets at least one of the following <sup>1,2</sup>:
  - Any course offered by an engineering department, including but not limited to CIV ENGR.
  - Any Intermediate or Advanced level course with a breadth designation of Biological Sciences, Physical Sciences and/or Natural Sciences. These courses cannot also carry a breadth designation of Social Sciences, Humanities or Literature.
  - Any of the following business courses: ACCT I S 300 Accounting Principles, FINANCE/ECON 300 Introduction to Finance, GEN BUS 301 Business Law, M H R 300 Managing Organizations, REAL EST/A A E/ECON/URB R PL 306 The Real Estate Process

**Total Credits: 12**

- Up to three credits of CIV ENGR 1 Cooperative Education Program may be used towards Item 2 or 3.
- Up to six credits of research work (CIV ENGR 299 Independent Study, CIV ENGR 489 Honors in Research and/or CIV ENGR 699 Independent Study) may be used towards Item 2 or 3.

## COMMUNICATIONS

Code	Title	Credits
<i>Communications A (choose one)</i>		<b>3</b>
ENGL 100	Introduction to College Composition	
LSC 100	Science and Storytelling	
COM ARTS 100	Introduction to Speech Composition	
ESL 118	Academic Writing II	
<i>Speech-Related Course (choose one)</i>		<b>2</b>
E P D 275	Technical Presentations	
COM ARTS 105	Public Speaking	
COM ARTS 181	Elements of Speech-Honors Course	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
<i>Writing-Related Courses (choose one)</i>		<b>3</b>
E P D 397	Technical Communication	

ENGL 201	Intermediate Composition	
ENGL 315	English Phonology	
Total Credits		8

## LIBERAL STUDIES REQUIREMENTS

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 200) <sup>1</sup>		16
<b>Requirements specific to Civil Engineering:</b>		
<i>An economics course must be selected from the following list:</i>		
ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<i>A minimum of three credits of environmental studies course that meets the breadth designations of humanities, literature, and/or social science. Courses that also carry breadth designations of Biological Sciences, Natural Sciences, or Physical Sciences will not count towards this requirement.</i>		
Total Credits		16

<sup>1</sup> All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. An economics elective and an environmental studies elective are required.

Note: See a CEE advisor and/or the CEE Curriculum Guide (<https://www.engr.wisc.edu/department/civil-environmental-engineering/academics/bs-civil-engineering>) for additional information.

## ENVIRONMENTAL ENGINEERING OPTION

The Department of Civil and Environmental Engineering offers an undergraduate option in environmental engineering. Students taking the environmental engineering option will earn an ABET-accredited B.S. degree in civil engineering. The transcript and graduate certificate will indicate the environmental engineering option.

Students pursuing the environmental engineering option take the same core courses in mathematics, natural sciences, engineering, communications, and liberal studies as do the other civil engineering students. The applied engineering requirements within the environmental engineering curriculum differ from those of CEE in that students are required to complete several courses with an emphasis in water resources, environmental fluid mechanics, environmental chemistry and biotechnology, water and wastewater treatment, geoenvironmental and hazardous wastes engineering, air pollution control engineering, or occupational health engineering.

**Total Credits: 22**

## CIVIL ENGINEERING DESIGN REQUIREMENT

Code	Title	Credits
CIV ENGR 578	Senior Capstone Design	4
Every student must take at least one class in at least two of the following CEE disciplines, for a total of 6 credits. One of the two classes MUST be completed BEFORE taking CIV ENGR 578 Senior Capstone Design.		6
<i>Water Resources</i>		

CIV ENGR 414	Hydrologic Design	
<i>Environmental</i>		
CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	
<i>Structural</i>		
CIV ENGR 442	Wood Structures I	
CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	
CIV ENGR 641	Highway Bridges	
<i>Geological</i>		
CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 531	Retaining Structures	
CIV ENGR/ G L E 532	Foundations	
<i>Transportation</i>		
CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	
Total Credits		10

Note: If a student takes three or more courses from the above list, two of those courses will count toward this civil engineering design requirement and the other classes will count towards the electives requirement (see section below).

## ENGINEERING ELECTIVES REQUIREMENT

- Students must take at least 3 credits of coursework from an ABET-accredited degree-granting program outside of the Bachelor of Science in Civil Engineering program. InterEGR and EPD courses do not qualify for meeting this requirement; any courses cross-listed with Civil Engineering (CEE) do not qualify for meeting this requirement.
- Select at least one of the following: CIV ENGR 322 Environmental Engineering Processes or CIV ENGR 410 Hydraulic Engineering.
- Students must take at least 6 credits of coursework that meets at least one of the following:
  - Any course offered by an engineering department, including but not limited to CEE
  - Any Intermediate or Advanced level course with a breadth designation of Biological Sciences, Physical Sciences, and/or Natural Sciences. These courses cannot also carry a breadth designation of Social Sciences, Humanities, or Literature.
  - Any of the following business courses: ACCT I S 300 Accounting Principles, FINANCE/ECON 300 Introduction to Finance, GEN BUS 301 Business Law, M H R 300 Managing Organizations, REAL EST/A A E/ECON/URB R PL 306 The Real Estate Process.

**Total Credits: 12**

<sup>1</sup> Up to three credits of CIV ENGR 1 Cooperative Education Program may be used towards Item 2 or 3.

<sup>2</sup> Up to six credits of research work (CIV ENGR 299 Independent Study, CIV ENGR 489 Honors in Research and/or CIV ENGR 699 Independent Study) may be used towards Item 2 or 3.

## ENVIRONMENTAL ENGINEERING BREADTH REQUIREMENT

Courses selected to meet the design and electives requirement on the preceding page must also be selected in a manner that meets this requirement. At least one CEE course must be selected from at least three of the specialty groups in the table below.

Code	Title	Credits
<i>Water Resources</i>		
CIV ENGR 315	Hydrology	3
CIV ENGR 410	Hydraulic Engineering	3
CIV ENGR 412	Groundwater Hydraulics	3
CIV ENGR 414	Hydrologic Design	3
CIV ENGR 416	Water Resources Systems Analysis	3
CIV ENGR 619	Special Topics in Hydrology	1-3
<i>Environmental Fluid Mechanics</i>		
CIV ENGR 411	Open Channel Hydraulics	3
CIV ENGR 514	Coastal Engineering	2-3
CIV ENGR 618	Special Topics in Hydraulics and Fluid Mechanics	1-3
<i>Environmental Chemistry &amp; Biotechnology</i>		
CIV ENGR 500	Water Chemistry	3
CIV ENGR 501	Water Analysis-Intermediate	3
CIV ENGR/ SOIL SCI 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
CIV ENGR 629	Special Topics in Environmental Engineering	1-3
<i>Water &amp; Wastewater Treatment</i>		
CIV ENGR 322	Environmental Engineering Processes	3
CIV ENGR/BSE/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	2
CIV ENGR 426	Design of Wastewater Treatment Plants	3
CIV ENGR 428	Water Treatment Plant Design	3
<i>Geoenvironmental and Hazardous Wastes</i>		
CIV ENGR 427	Solid and Hazardous Wastes Engineering	3
CIV ENGR 522	Hazardous Waste Management	3
CIV ENGR/G L E 633	Waste Geotechnics	3
CIV ENGR/G L E 635	Remediation Geotechnics	3
<i>Occupational &amp; Public Health</i>		
CIV ENGR 422	Elements of Public Health Engineering	3
<i>Air Pollution Control</i>		
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 609	Special Topics in Water Chemistry	1-3

## CONSTRUCTION ENGINEERING AND MANAGEMENT OPTION

The Department of Civil and Environmental Engineering offers an undergraduate option in construction engineering and management. Students taking the CEM Option will earn an ABET accredited BS degree in Civil Engineering. The transcript and graduate certificate will indicate the CEM option.

Students pursuing the CEM option take the same core courses in mathematics, natural sciences, engineering, communications, and liberal studies as do the other civil engineering students. The applied engineering requirements within the CEM curriculum differ from those of CEE in that students are required to complete courses in construction management and courses in the School of Business. Students must also complete two 1-credit co-op or internship experiences. The total number of credits required for the CEM option is 131 instead of 128.

**NOTE:** These requirements for applied engineering are not applicable to the general civil (CEE) or environmental engineering (EV).

Code	Title	Credits
Civil & Environmental Engineering Courses		21
Business Courses		6
Total Credits		27

## REQUIREMENTS

Code	Title	Credits
CIV ENGR 445	Steel Structures I	3
CIV ENGR 447	Concrete Structures I	3
CIV ENGR 578	Senior Capstone Design <sup>1</sup>	4
Select one of the following:		3
CIV ENGR 392	Building Information Modeling (BIM) <sup>2</sup>	
CIV ENGR 414	Hydrologic Design	
CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 442	Wood Structures I	
CIV ENGR 522	Hazardous Waste Management	
CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 531	Retaining Structures	
CIV ENGR/ G L E 532	Foundations	
CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	
CIV ENGR 641	Highway Bridges	
CIV ENGR/BSE 491	Legal Aspects of Engineering	3
CIV ENGR 492	Integrated Project Estimating and Scheduling	3

Students must take two 1-credit co-ops or internships. A summer internship equals one-credit; a co-op equals one-credit.

Select one of the following:

CIV ENGR 496 Electrical Systems for Construction

CIV ENGR 497 Mechanical Systems for Construction

Select two of the following:

ACCT I S 300 Accounting Principles

FINANCE/  
ECON 300 Introduction to Finance

M H R 300 Managing Organizations

REAL EST/  
A A E/ECON/  
URB R PL 306 The Real Estate Process

REAL EST 611 Residential Property Development

Total Credits

27

<sup>1</sup> Must complete both CIV ENGR 445 and CIV ENGR 447 before taking.

<sup>2</sup> This course is only available for CM option students.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### Vision

Develop and maintain a learning community that pursues new knowledge and understanding, and provides innovative and sustainable solutions to human and ecological needs.

### Mission of Bachelor of Science in Civil Engineering (BSCE) Program

Create, integrate, and transfer civil and environmental engineering knowledge and practice in the development of professionals, leaders, and citizens that help define and serve societal and environmental needs by applying this knowledge and practice in an effective and sustainable manner.

## 2 CEE Educational Objectives

Prepare BSCE graduates to contribute to their communities through the following career and professional accomplishments:

1. Design and construct both natural and built processes and systems to meet determined needs using technical knowledge; computer tools; design principles; and communication, leadership and team skills.
2. Utilize measurement and analysis tools along with experimental data in investigating natural and built systems.
3. Understand and incorporate economic, environmental, political, social, safety and global considerations in design, investigation, and construction of natural and built systems.
4. Maintain analysis and design tools and experience through life-long learning and serve others through participation in professional and/or civic activities and responsibilities.

**At the time of graduation, UW-Madison Bachelor of Science, Civil Engineering students will have attained:**

- a. An ability to apply knowledge of mathematics, science, and engineering.
- b. An ability to design and conduct experiments, as well as to analyze and interpret data.
- c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- d. An ability to function on multidisciplinary teams.
- e. An ability to identify, formulate, and solve engineering problems.
- f. An understanding of professional and ethical responsibility.
- g. An ability to communicate effectively.
- h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
  - i. A recognition of the need for, and an ability to engage in life-long learning.
  - j. A knowledge of contemporary issues.
- k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
  - l. An ability to explain basic concepts in management, business, public policy, and leadership.
- m. An ability to explain the importance of professional licensure.
- n. An ability to understand common failure mechanisms of a component, process, or system and their causes and prevention.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
CHEM 109	5 E M A 201	3
INTEREGR 110	1 M E 170 or 231	2
INTEREGR 170	2 E P D 275	2
COMMUNICATIONS A	3 LIBERAL STUDIES	3



	BIOLOGY ELECTIVE	3
	16	17

**Second Year**

Fall	Credits Spring	Credits
MATH 234	4 MATH 319 or 320	3
E M A 202	3 E M A 303 or M E 306	3
CIV ENGR 320	3 E M A/M E 307	1
GEOSCI 100 or 106	3 Engineering Spatial Measurements <sup>1</sup>	2
STAT 224, 324, or 311	3 Problem Solving Using Computer Tools <sup>1</sup>	2
	CIV ENGR 310	3
	CIV ENGR 370	3
	16	17

**Third Year**

Fall	Credits Spring	Credits
CIV ENGR 311	3 CIV ENGR/G L E 330	4
CIV ENGR 340	4 CIV ENGR/E M A 395	3
PHYSICS 202 or 208	5 CIV ENGR 494	3
ECON 101, 102, or 111	4 CIV ENGR DESIGN ELECTIVE	3
	ETHNIC STUDIES	3
	16	16

**Fourth Year**

Fall	Credits Spring	Credits
CIV ENGR DESIGN ELECTIVE	3 CIV ENGR 578	4
CIV ENGR ELECTIVE	3 APPLIED ENGR ELECTIVE	3
CIV ENGR ELECTIVE	1 APPLIED ENGR ELECTIVE	3
ENGR OUTSIDE OF CIV ENGR	3 LIBERAL STUDIES	3
CIV ENGR 498	3 ENV STUDIES ELECTIVE	3
E P D 397	3	
	16	16

Total Credits 130

<sup>1</sup> Civil Engineering course numbers to be determined. Until courses are established, CIV ENGR/G L E 291 Problem Solving Using Computer Tools meets both requirements.

**ADVISING AND CAREERS****ADVISING**

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

**ENGINEERING CAREER SERVICES**

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops

and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

**PEOPLE****PROFESSORS**

Noyce (chair)  
Adams  
Bahia  
Cramer  
Hanna  
Harrington  
Likos  
Mcmahon  
Noguera  
Park  
Parra-Montesinos  
Ran  
Russell  
Schauer  
Wu

**ASSOCIATE PROFESSORS**

Ahn  
Fratta  
Hurley  
Loheide  
Pincheira

**ASSISTANT PROFESSORS**

Block  
Ginder-Vogel  
Hedegaard  
Hicks  
Prabhakar  
Remucal  
Sone  
Wright

**GEOLOGICAL ENGINEERING, B.S.**

Geological engineering integrates two disciplines—geology and engineering. Geologists study the earth—its origins, its composition, and its evolution. Engineers apply scientific principles to practical ends, such as the design and construction of facilities for practical use by society. Geological engineering is interdisciplinary with faculty from the College of Engineering and the College of Letters & Science.

Geological engineers find the best way to use the earth's resources to solve technical problems while protecting the environment. They solve a variety of practical problems associated with rock and soils

using principles of sustainable engineering. They design and construct structures, transportation facilities, dams, tunnels, and power plants. They mitigate naturally occurring phenomena such as floods, landslides, and earthquakes, and develop safe and environmentally sound sources of energy and minerals. Geological engineers also manage groundwater and surface water resources to ensure the public has access to safe drinking water. They also design and construct subsurface repositories for waste disposal and remediate contaminated sites.

Students pursuing the B.S. degree are encouraged to obtain an additional major in geoscience. The B.S. program is set up so that students can obtain a degree in geological engineering and an additional major in geoscience in a single 125-credit program. No extra credits are required to obtain the additional major in geoscience. The B.S. degree in geological engineering is accredited by the Accreditation Board of Engineering and Technology (ABET), which is required to obtain a professional engineering license.

## FACILITIES

The Geological Engineering Program utilizes laboratories that are shared with other departments. They include:

- Land Information and Surveying Laboratories
- Fluid Mechanics Laboratory
- Materials Testing Laboratory
- Geology and Hydrogeology Laboratories
- Rock Mechanics Laboratory
- Geotechnical and Geoenvironmental Laboratories
- The Halliburton Geoscience Visualization Center

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

Students must complete the College of Engineering Liberal Studies Requirements (p. 200).

Students are encouraged to download a GLE Undergraduate Handbook from the Current Students/Undergraduate page on the department website (<http://www.engr.wisc.edu/interd/gep>). The handbook has detailed curriculum information as well as other practical information for undergraduate students to supplement the information provided here.

Students completing the geological engineering degree are also eligible to earn an additional major in geoscience with no additional coursework. Students are encouraged to declare an additional major in geoscience. Students must contact an advisor to complete the necessary paperwork to declare an additional major in geoscience.

**SUMMARY OF REQUIREMENTS**

Code	Title	Credits
	Mathematics	13
	Engineering Principles and Professional Issues	11-14
	Physical Science, Engineering Science, and Geoscience	44
	Required Geological Engineering Courses	18
	Technical Electives	15
	Geological Engineering Design	
	Communication Skills	8
INTEREGR 110	Introduction to Engineering	1
	Liberal Studies Electives	16
	Fundamentals of Engineering Exam	
	Total Credits	126-129

**MATHEMATICS**

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
	or MATH 217 Calculus with Algebra and Trigonometry II	
	or MATH 275 Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
	or MATH 276 Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
	Total Credits	13

**ENGINEERING PRINCIPLES AND PROFESSIONAL ISSUES**

Code	Title	Credits
STAT 324	Introductory Applied Statistics for Engineers	3
	or STAT 224 Introductory Statistics for Engineers	
	or STAT 311 Introduction to Theory and Methods of Mathematical Statistics I	
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	3
CIV ENGR 251	Engineering Spatial Measurements	2
I SY E 313	Engineering Economic Analysis	3
E P D 690	Special Topics in Engineering Professional Development	1-4
	or ENVIR ST 250 Introduction to Sustainability Science	
	or ENVIR ST/ GEOG 339 Environmental Conservation	
	or ENVIR ST/ PHILOS 441 Environmental Ethics	
	or G L E 401 Special Topics in Geological Engineering	
	Total Credits	12-15

**PHYSICAL SCIENCE, ENGINEERING SCIENCE AND GEOSCIENCE**

Code	Title	Credits
CHEM 109	Advanced General Chemistry (or CHEM 103 & 104)	5
PHYSICS 202	General Physics	5
	or PHYSICS 208 General Physics	
E M A 201	Statics	3
E M A 202	Dynamics	3
	or M E 240 Dynamics	
E M A 303	Mechanics of Materials	3
	or M E 306 Mechanics of Materials	
CIV ENGR 310	Fluid Mechanics	3
GEOSCI 100	General Geology	3
	or GEOSCI/ ENVIR ST 106 Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4
	Total Credits	44

**REQUIRED GEOLOGICAL ENGINEERING COURSES**

Code	Title	Credits
G L E 171	Introduction to Geological Engineering	1
G L E/CIV ENGR 330	Soil Mechanics	4
G L E/GEOSCI/ M S & E 474	Rock Mechanics	3
G L E 479	Geological Engineering Design	3

G L E/GEOSCI 594	Introduction to Applied Geophysics	3
G L E/GEOSCI 595	Field Methods in Applied and Engineering Geophysics	1
G L E/GEOSCI 627	Hydrogeology	4
Total Credits		19

## TECHNICAL ELECTIVES

Students must take at least 15 credits in the Technical Electives category. All students must complete at least two designated design courses (noted as D in the GLE Undergraduate Handbook (<https://uwmadison.app.box.com/s/faxp2rkknj2rt6qx2r2>)) as part of the technical electives. Students may take up to 6 credits of G L E 489 Honors in Research as technical electives. The technical electives are organized into five tracks, described below. Students may select courses within these tracks to focus coursework in a particular area. However, students may complete the technical electives requirement using courses listed in multiple tracks.

Suggested technical electives and associated credits (D indicates design course) for each track are included below.

### Energy, Minerals & Mining

Geological engineers possess knowledge and a skill set that serve society's need to manage extraction of traditional energy and mineral resources in more sustainable and efficient ways, and to lead in new technologies to limit carbon emissions through geological sequestration or to develop geothermal energy in deeper reservoirs.

Within this track, the 16 credits of liberal studies can be framed to match those of the Energy Institute certificate in Energy Sustainability ([http://www.energy.wisc.edu/?page\\_id=1077](http://www.energy.wisc.edu/?page_id=1077)).

Code	Title	Credits
BSE/ENVIR ST 367	Renewable Energy Systems	3
E M A 405	Practicum in Finite Elements	3
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI 457	Conducted Field Trip	2
GEOSCI 459	Field Geology	6
GEOSCI 515	Principles of Economic Geology	4
G L E 401	Special Topics in Geological Engineering (D)	1-3
G L E/GEOSCI/ M S & E 475	Rock Mechanics Applications to Environmental Problems	3
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E/CIV ENGR 531	Retaining Structures (D)	3

### Sustainability & Environment

Methods for quantifying the long-term effects of development, natural resource extraction, and environmental damage are often neglected or misapplied in cost-benefit life cycle analysis. This track intends to produce professionals capable of leading the field in sustainable design and construction. The Sustainability & Environment track focuses on quantification, design, and optimization in relation to the use of natural resources and construction materials/methods as well as minimizing the long-term impacts of these activities.

Code	Title	Credits
BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 427	Solid and Hazardous Wastes Engineering	3
CIV ENGR 619	Special Topics in Hydrology	1-3
CIV ENGR 649	Special Topics in Structural Engineering (Sustainable Construction)	1-3
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI/G L E 629	Contaminant Hydrogeology (D)	3
G L E 401	Special Topics in Geological Engineering (D)	1-3
G L E/CIV ENGR 633	Waste Geotechnics (D)	3
G L E/CIV ENGR 635	Remediation Geotechnics (D)	3
G L E/CIV ENGR 732	Unsaturated Soil Geoengineering	3
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Geohazards

The number of fatalities and amount of economic loss due to geohazards increases every year. These losses may result from various geohazards, such as volcanic eruptions, earthquakes, landslides, flooding and tsunamis. The Geohazards track aims to provide students with the necessary skills to perform analyses that minimize loss of life and economic costs associated with geohazards.

The number of fatalities and amount of economic loss due to geohazards increases every year. These losses may result from various geohazards, such as volcanic eruptions, earthquakes, landslides, flooding and tsunamis. The Geohazards track aims to provide students with the necessary skills to perform analyses that minimize loss of life and economic costs associated with geohazards.

Code	Title	Credits
CIV ENGR 514	Coastal Engineering	2-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 326	Landforms-Topics and Regions	3
GEOSCI 459	Field Geology	6
G L E/CIV ENGR/ ENVIR ST/ GEOSCI 444	Practical Applications of GPS Surveying	2
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E 597	Borehole Geophysics	3
G L E/CIV ENGR 735	Soil Dynamics (D)	3

### Water

Water is an essential resource for humans and ecosystems. Water is also linked to mineral and energy resource production, waste management, and land reclamation. Population growth and climate change are creating increasing challenges to this resource. Development and sustainable

management of groundwater and surface water, including prevention and mitigation of water quality problems, require combined expertise in geoscience, hydrology, and water resources engineering offered through the Water track.

Code	Title	Credits
CIV ENGR 311	Hydroscience	3
CIV ENGR 315	Hydrology	3
CIV ENGR 412	Groundwater Hydraulics	3
CIV ENGR 500	Water Chemistry	3
CIV ENGR 619	Special Topics in Hydrology	1-3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 326	Landforms-Topics and Regions	3
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 629	Contaminant Hydrogeology (D)	3
G L E 476	Field Methods in Geological Engineering (D)	3
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E/CIV ENGR 732	Unsaturated Soil Geoengineering	3

### Infrastructure

There are many challenges that need to be overcome to address the ageing infrastructure of this country as well as develop cost effective solutions for new infrastructure in developing nations. The Infrastructure track is developed to provide students a background that enables them to perform engineering calculations to design, construct, assess the current condition (level of safety), and develop repair and retrofit solutions for civil engineering structures resting on, or constructed in, soil or rock.

Code	Title	Credits
CIV ENGR 649	Special Topics in Structural Engineering (Sustainable Construction)	1-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
GEOSCI 430	Sedimentology and Stratigraphy	3
G L E 401	Special Topics in Geological Engineering (D)	1-3
G L E/CIV ENGR/ ENVIR ST/ GEOSCI 444	Practical Applications of GPS Surveying	2
G L E 476	Field Methods in Geological Engineering (D)	3
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E/CIV ENGR 531	Retaining Structures (D)	3
G L E/CIV ENGR 532	Foundations (D)	3
G L E/CIV ENGR 730	Engineering Properties of Soils	3
G L E/CIV ENGR 735	Soil Dynamics (D)	3

### INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
Total Credits		1

### COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
or COM ARTS 105	Public Speaking	
E P D 397	Technical Communication	3
Total Credits		8

### LIBERAL STUDIES

Students must complete the College of Engineering Liberal Studies Requirements (p. 200).

### FUNDAMENTALS OF ENGINEERING EXAM

All students must take the Fundamentals of Engineering exam. The General Engineering or Civil Engineering sections are recommended for the afternoon portion of the exam, as there is no section specifically for Geological Engineering.

### HONORS IN RESEARCH

Students in geological engineering that have completed at least two semesters on the Madison campus with a cumulative GPA of **at least 3.5** may apply to participate in the Honors in Research program. Students may register for 1 to 3 credits per semester. A grade of P (Progress) will be assigned each semester until the student completes the honors in research program or drops out of the program, at which time a final grade is assigned (based on research progress and the written thesis, if completed). This becomes the grade for all credits taken in G L E 489 Honors in Research.

A senior thesis worth 3 credits of G L E 489 is required. The senior thesis is a written document reporting on a substantial piece of work that is prepared in the style of a graduate thesis. The thesis advisor determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the geological engineering office to complete the program.

The designation "Honors in Research" will be recorded on the student's transcript if the following criteria are met:

1. Satisfaction of requirements for an undergraduate degree in Geological Engineering.
2. A cumulative grade-point average of at least 3.3.
3. Completion of a total of at least 8 credits in G L E 489.
4. Completion of a senior honors thesis with a final grade of B or better.

Students interested in the Honors in Research program should contact their advisor or the GLE chair for more information. Applications to the program are to be submitted to the GLE chair with a supporting letter from the student's academic and thesis advisors. Decisions regarding acceptance are made by the GLE chair.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

At the time of graduation, UW-Madison Geological Engineering students will have attained:

- an ability to apply knowledge and principles of mathematics, science, and engineering to geological engineering problems;
- an ability to design and conduct experiments, as well as to analyze and interpret data;
- an ability to design a system, component, or process to meet required needs within realistic economic, environmental, social, political, ethical, health and safety, constructability, and sustainability goals;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve geological engineering problems in space and time;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for and the ability to engage in life-long learning;
- a knowledge of contemporary issues as related to geological engineering; and
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
CHEM 109	5	E M A 201	3

GEOSCI 100 or 106	3	GEOSCI 204	4
Communications A	3	G L E 171	1
INTEREGR 110	1	Liberal Studies Elective	4
	17		16

#### Second Year

Fall	Credits	Spring	Credits
MATH 234	4	CIV ENGR 310	3
E M A 202	3	E M A 303	3
GEOSCI/G L E 360	3	PHYSICS 202 or 208	5
GEOSCI 202	4	GEOSCI/G L E 370	3
E P D 275	2	Liberal Studies Elective	3
	16		17

#### Third Year

Fall	Credits	Spring	Credits
STAT 324, 224, or 311	3	Technical Elective (design)	3
Technical Elective	3	Professional Issues	1-4
CIV ENGR/G L E 330	4	G L E/GEOSCI/ M S & E 474	3
G L E/GEOSCI 431	1	GEOSCI/G L E 455	4
CIV ENGR/G L E 291	3	E P D 397	3
CIV ENGR 251	2		
	16		14-17

#### Fourth Year

Fall	Credits	Spring	Credits
Ethnic Studies	3	G L E 479	3
G L E/GEOSCI 594	3	Liberal Studies Elective	3
G L E/GEOSCI 595	1	Liberal Studies Elective	3
G L E/GEOSCI 627	4	I S Y E 313	3
Technical Elective (design)	3	Technical Elective	3
		Technical Elective	3
	14		18

Total Credits 128-131

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Barh  
Feigl  
Goodwin  
Holloway  
Kung  
Likos (chair)  
Thurber  
Tikoff  
Tobin  
Wang  
Wi

### ASSOCIATE PROFESSORS

Fratia  
Tinjum

### ASSISTANT PROFESSORS

Cardiff  
Hicks  
Loheide II  
Sone  
Zoet

## ELECTRICAL AND COMPUTER ENGINEERING

The Department of Electrical and Computer Engineering offers the B.S., M.S. and Ph.D. degrees in electrical engineering and the B.S. degree in computer engineering.

Electrical Engineers design and develop anything and everything that uses electricity: from the power systems that bring electricity to our homes and communications systems that allow us to keep in touch with family and friends, to the electronic devices, electrical appliances, computers, sensors, and medical equipment that shape our everyday lives. Typical careers may find an EE collaborating with medical doctors or astronauts in the space program, designing advanced automotive and transportation systems, and interacting with other engineers and professionals. Many EEs work as scientists, inventing new kinds of electronic technology, instrumentation, and devices to help people.

Electrical engineers design, develop, analyze, research, and manufacture systems such as those for power generation distribution, communication, control, and instrumentation. Electrical engineers are also concerned with the devices that make up these systems, such as transistors, integrated circuits, rotating machines, antennas, and fusion plasma confinement devices. Low-power, reliable integrated circuits allow dramatic improvements that have driven the revolution in communications and

computation. High-power transistors in combination with electronic controls are serving as the foundation for new ways of efficiently utilizing electrical power.

Computer engineers design, develop, analyze, research, and manufacture hardware, software, and systems that process, store, and convey digital information. These systems include personal computers, workstations, mainframe computers, and embedded digital systems. Embedded systems consist of one to many computers within other products such as aircraft, automobiles, communication switching systems, networking components, biomedical instrumentation, and industrial automation systems. These systems are characterized by the use of digital electronic hardware and software in performing useful tasks. Computer software in combination with digital integrated circuits provides the foundation for the current revolution in computers and communications. This focus on software and digital hardware distinguishes the computer engineer from the electrical engineer.

The curricula in the Department of Electrical and Computer Engineering require a strong background in mathematics, physics, and computer sciences. In addition to basic course requirements in these areas, elective credits in the curriculum permit the student to pursue more advanced courses in these areas or in other fields, such as chemistry, biology, and mechanics. Additional electives in liberal studies broaden the programs to include such areas as economics, sociology, psychology, and history.

The electrical engineering and computer engineering programs share many courses in the sophomore year including digital systems, electrical circuits, and electromagnetic fields. Computer engineering students take additional courses in computer sciences to provide the software part of their background. In subsequent semesters, the electrical engineering and computer engineering programs share the study of solid state devices, and of signals and systems. In the junior year, the electrical engineering program focuses on areas such as electromagnetic fields and analog electronics whereas computer engineering deals with computer hardware design and combined hardware/software design concepts. Technical elective freedom in both curricula makes it possible for students to choose from approximately 50 more specialized courses at the junior and senior levels in electrical and computer engineering, as well as courses from other departments. In both curricula, a student can choose a broad program covering an introductory treatment of a variety of areas or focus in one or two specialized areas. An advising program, beginning in the freshman year, helps students plan their program.

To provide students with hands-on experience in electrical and computer engineering, specialized lab courses are offered at the senior level. For example, one involves the design and fabrication of integrated circuits and the other design and prototyping of a computer. Both classroom instruction and lab work are offered in the analysis and design of control systems and also in embedded systems, with microprocessors and personal computers incorporated into larger systems. Independent study and design projects are encouraged at the senior level and an honors research program is available which spans multiple years of the undergraduate program.

Although the B.S. in electrical engineering and B.S. in computer engineering programs are intended to prepare students for immediate entry into the profession of engineering, increasingly, students find an additional year or more of study leading to the M.S. degree very desirable. The Ph.D. degree is the most advanced degree and emphasizes training in research.

## DEGREES/MAJORS/CERTIFICATES

- Computer Engineering, B.S. (p. 232)
- Electrical Engineering, B.S. (p. 237)

## PEOPLE

### PROFESSORS

Booske (chair)  
 Anderson  
 Barmish  
 Behdad  
 Boston  
 Botez  
 DeMarco  
 Gubner (vice chair)  
 Hagness  
 Hitchon  
 Hu  
 Jahns  
 Jiang\*  
 Knezevic  
 Lesieutre  
 Lipasti  
 Ma  
 Mawst  
 Nowak  
 Ramanathan (vice chair)  
 Sayeed  
 Sethares  
 Shohet  
 van der Weide  
 Van Veen  
 Venkataramanan  
 Wendt

### ASSOCIATE PROFESSORS

Davoodi  
 Milenkovic  
 Morrow  
 Willett

### ASSISTANT PROFESSORS

Farrell  
 Fawaz  
 Jog  
 Kats  
 Kim  
 Lessard  
 Li  
 Loh  
 Ludois  
 Papailiopoulos  
 Severson  
 Velten  
 Yu

### FACULTY ASSOCIATES

Allie

Fredette  
 Hoffman  
 Krachey  
 Milicic  
 Morrow  
 Lu

\*For scholarship information, please contact Professor Jiang.

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Automatic Control Laboratory  
 CAE (Computer-Aided Engineering) and ECE Laboratory Computers  
 Center for Plasma Theory and Computation Computers  
 Computational Electromagnetics Laboratory  
 Core ECE Labs  
 Digital Engineering Lab  
 Digital Logic and Microprocessor Lab  
 Electromagnetic Materials Processing Laboratory  
 Electronics Lab  
 Embedded Systems Lab  
 Excimer Laser and Radiofrequency Source Laboratory  
 Fiber Optics and Opto-electronics Lab  
 Grainger Electric Machines and Power Lab  
 High-Frequency Engineering Lab  
 High-Power Microwave Mode Conversion and Transmission Lab  
 HSX Plasma Laboratory  
 Integrated Circuit Facility  
 Integrated Circuit Facility Medical Instrumentation Lab  
 Lab for Molecular Scale Engineering  
 Microwave Scanner Laboratory  
 Photonics Lab  
 Plasma Processing & Technology Laboratory  
 Power Electronics Lab  
 Radiofrequency Plasma Source Laboratory  
 Signal Processing Lab  
 Vacuum Electronic Devices Lab  
 Wisconsin Advanced Network Design, Experimentation, and Research (WANDER) Laboratory Signal Processing Lab  
 Vacuum Electronic Devices Lab  
 Wisconsin Advanced Network Design, Experimentation, and Research (WANDER) Laboratory

## COMPUTER ENGINEERING, B.S.

Computer engineers design, develop, analyze, research, and manufacture hardware, software, and systems that process, store, and convey digital information. These systems include personal computers, workstations, mainframe computers, and embedded digital systems. Embedded systems consist of one to many computers within other products such as aircraft, automobiles, communication switching systems, networking components, biomedical instrumentation, and industrial automation systems. These systems are characterized by the use of digital electronic hardware and software in performing useful tasks. Computer software in combination with digital integrated circuits provides the foundation for the current revolution in computers and communications. This focus on



software and digital hardware distinguishes the computer engineer from the electrical engineer.

Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

The following curriculum applies to students who were admitted to the computer engineering degree program (classification changed to CMPE) in fall 2013 or later.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics	19
	Science	21
	Computer Engineering Core	32
	Computer Engineering Advanced Electives	16
	Professional Electives	9
	Introduction to Engineering	1
	Communication Skills	6
	Liberal Studies	15
	Free Elective	1
	Total Credits	120

### MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4

or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
<i>Probability/Statistics Elective (select one)</i>		3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
E C E 331	Introduction to Random Signal Analysis and Statistics	
Total Credits		19

## SCIENCE

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
PHYSICS 201	General Physics	5
or PHYSICS 207	General Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
Select one of the following:		5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
Total Credits		21-25

## COMPUTER ENGINEERING CORE

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 210	Introductory Experience in Electrical Engineering	2
E C E 219	Analytical Methods for Electromagnetics Engineering	1
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4
E C E/COMP SCI 252	Introduction to Computer Engineering	2
E C E 270	Circuits Laboratory I	1
E C E 315	Introductory Microprocessor Laboratory	1
E C E 340	Electronic Circuits I	3
E C E/COMP SCI 352	Digital System Fundamentals	3
E C E 353	Introduction to Microprocessor Systems	3
E C E/COMP SCI 354	Machine Organization and Programming	3
E C E 551	Digital System Design and Synthesis	3
Total Credits		32

## COMPUTER ENGINEERING ADVANCED ELECTIVES

Code	Title	Credits
<i>Electronic Circuits Elective</i>		3
E C E 342	Electronic Circuits II	
E C E 447	Applied Communications Systems	
E C E 541	Analog MOS Integrated Circuit Design	
E C E 542	Introduction to Microelectromechanical Systems	
E C E 548	Integrated Circuit Design	
E C E 555	Digital Circuits and Components	
<i>Systems Software Elective</i>		3-4
E C E/ COMP SCI 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 564	Database Management Systems: Design and Implementation	
<i>Capstone Design</i>		4
E C E 453	Embedded Microprocessor System Design	
E C E 454	Mobile Computing Laboratory <sup>1</sup>	
E C E 554	Digital Engineering Laboratory	
<i>CMPE Elective I</i>		3
E C E 537	Communication Networks	
E C E/ COMP SCI 552	Introduction to Computer Architecture	
E C E 553	Testing and Testable Design of Digital Systems	
E C E 556	Design Automation of Digital Systems	
<i>CMPE Elective II</i>		3
Select from E C E 399 - E C E 699		
Select from COMP SCI 400 - COMP SCI 699 <sup>1</sup>		
Total Credits		16-17

<sup>1</sup> E C E 454 Mobile Computing Laboratory and COMP SCI 407 Foundations of Mobile Systems and Applications cannot both be taken for degree credit.

## PROFESSIONAL ELECTIVES

Code	Title	Credits
<b>Professional Electives</b>		9
<i>Courses to be taken in an area of professional interest. The following courses are acceptable as professional electives if the courses are not used to meet any other degree requirements.</i>		
E C E 1	Cooperative Education Program (One co-op credit can count towards professional electives.)	
E C E/ PHYSICS 235	Introduction to Solid State Electronics	
E C E 320	Electrodynamics II	
E C E 330	Signals and Systems	

E C E 331	Introduction to Random Signal Analysis and Statistics
E C E 332	Feedback Control Systems
E C E 334	State Space Systems Analysis
E C E 335	Microelectronic Devices
E C E 342	Electronic Circuits II (may be used if not already used as an Electronic Circuits Advanced Elective)
E C E 355	Electromechanical Energy Conversion
E C E 356	Electric Power Processing for Alternative Energy Systems
ECE courses numbered 399 and higher	
Computer Science courses numbered 400 and higher	
MATH 319	Techniques in Ordinary Differential Equations
MATH 320	Linear Algebra and Differential Equations
MATH 321	Applied Mathematical Analysis
MATH 322	Applied Mathematical Analysis
MATH 340	Elementary Matrix and Linear Algebra
MATH 341	Linear Algebra
Math courses numbered 400 and higher	
Statistics courses numbered 400 and higher	
Any biological sciences course that is designated as intermediate or advanced level	
Any physical science course that is designated as intermediate or advanced level	
Any natural science course that is designated as advanced level, except that math, computer sciences, and statistics courses must follow the above criteria	
Engineering courses numbered 300 and higher that are not ECE or cross-listed with ECE	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors
M H R 322	Introduction to Entrepreneurial Management
M H R 434	Venture Creation
M H R 441	Technology Entrepreneurship
DS 501	Special Topics (Wearable Technologies)
DANCE 560	Current Topics in Dance: Workshop (Making Digital Lighting Controls)

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
Total Credits		1

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3

or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 397	Technical Communication	3
Total Credits		6

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete requirements (p. 200) <sup>1</sup>		15
Total Credits		15

<sup>1</sup> All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. **Note:** See an ECE advisor and/or the EE Curriculum Guide (<https://www.engr.wisc.edu/department/electrical-computer-engineering/academics/bachelor-of-science-computer-engineering>) for additional information.

## TOTAL DEGREE CREDITS: 120

## LEARNING OUTCOMES

At the time of graduation, UW-Madison Computer Engineering students will have attained:

- an ability to apply knowledge of mathematics, science, and engineering.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- an ability to function on multidisciplinary teams.
- an ability to identify, formulate, and solve engineering problems.
- an understanding of professional and ethical responsibility.
- an ability to communicate effectively.
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- a recognition of the need for, and an ability to engage in life-long learning.
- a knowledge of contemporary issues.
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

First Year			
Fall	Credits Spring		Credits
MATH 221	5	MATH 222	4
CHEM 109	5	Liberal Studies Elective	3
E C E/COMP SCI 252	2	PHYSICS 201	5
Communications A	3	E C E 210	2

		INTEREGR 110	1
		15	15
<b>Second Year</b>			
Fall	Credits	Spring	Credits
E C E 203	3	MATH/COMP SCI 240	3
E C E/COMP SCI 352	3	E C E 219	1
MATH 234	4	E C E 230	4
PHYSICS 202	5	E C E 270	1
		COMP SCI 300	3
		Liberal Studies Elective	3
		15	15
<b>Third Year</b>			
Fall	Credits	Spring	Credits
E C E 353	3	E C E 315	1
E C E 220	3	E C E 551	3
E C E 340	3	Circuits Elective	3
E C E/COMP SCI 354	3	Probability and Statistics Elective	3
COMP SCI 400	3	E P D 397	3
		Liberal Studies Elective	3
		15	16
<b>Fourth Year</b>			
Fall	Credits	Spring	Credits
E C E 453, 454, or 554	4	COMP SCI 536, 537, or 564	3-4
Computer Engineering Elective	3	Computer Engineering Elective	3
Professional Elective	3	Professional Elective	3
Liberal Studies Elective	3	Professional Elective	3
Free Elective	1	Liberal Studies Elective	3
		14	15-16

Total Credits 120-121

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Booske (chair)  
Anderson  
Barmish  
Behdad  
Boston  
Botez  
DeMarco  
Gubner (vice chair)  
Hagness  
Hitchon  
Hu  
Jahns  
Jiang\*  
Knezevic  
Lesieutre  
Lipasti  
Ma  
Mawst  
Nowak  
Ramanathan (vice chair)  
Sayeed  
Sethares  
Shohet  
van der Weide  
Van Veen  
Venkataramanan  
Wendt

### ASSOCIATE PROFESSORS

Davoodi  
Milenkovic  
Morrow  
Willett

### ASSISTANT PROFESSORS

Farrell  
Fawaz  
Jog  
Kats  
Kim  
Lessard  
Li  
Loh  
Ludois  
Papailiopoulos  
Severson  
Velten  
Yu

### FACULTY ASSOCIATES

Allie  
Fredette  
Hoffman

Krachey  
Milicic  
Morrow  
Lu

\*For scholarship information, please contact Professor Jiang.

## ELECTRICAL ENGINEERING, B.S.

Electrical engineers design, develop, analyze, research, and manufacture systems such as those for power generation distribution, communication, control, and instrumentation. Electrical engineers are also concerned with the devices that make up these systems, such as transistors, integrated circuits, rotating machines, antennas, and fusion plasma confinement devices. Low-power, reliable integrated circuits allow dramatic improvements that have driven the revolution in communications and computation. High-power transistors in combination with electronic controls are serving as the foundation for new ways of efficiently utilizing electrical power.

### HOW TO GET IN

#### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

#### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

#### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison

to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

##### Requirements Detail

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

The following curriculum applies to students who were admitted to the electrical engineering degree program (classification changed to EE) in Fall 2012 or later.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics	16
	Science	18

Electrical Engineering Core	31
Electrical Engineering Advanced Electives	24
Professional Electives	9
Introduction to Engineering	1
Communication Skills	6
Liberal Studies	15
<b>Total Credits</b>	<b>120</b>

## MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
Probability and Statistics Elective		3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/M E 424	Statistical Experimental Design	
MATH/STAT 431	Introduction to the Theory of Probability	
E C E 331	Introduction to Random Signal Analysis and Statistics	
<b>Total Credits</b>		<b>16</b>

## SCIENCE

Code	Title	Credits
COMP SCI 300	Programming II	3
PHYSICS 201	General Physics	5
or PHYSICS 207	General Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
Select one of the following:		5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
<b>Total Credits</b>		<b>18-22</b>

## ELECTRICAL ENGINEERING CORE

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 210	Introductory Experience in Electrical Engineering	2
E C E 219	Analytical Methods for Electromagnetics Engineering	1
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4
E C E/PHYSICS 235	Introduction to Solid State Electronics	3
E C E/COMP SCI 252	Introduction to Computer Engineering	2

E C E 270	Circuits Laboratory I	1
E C E 271	Circuits Laboratory II	1
E C E 330	Signals and Systems	3
E C E 340	Electronic Circuits I	3
E C E/COMP SCI 352	Digital System Fundamentals	3
E C E 370	Advanced Laboratory	2
<b>Total Credits</b>		<b>31</b>

## ELECTRICAL ENGINEERING ADVANCED ELECTIVES

Students must take 22 credits in at least three of six areas and at least 2 credits in two laboratory courses.

- At least 9 credits must be in courses numbered 400 and above.
- At least one course must be a capstone design course.
- Students can count 1 credit of E C E 1 Cooperative Education Program toward advanced electives.
- Students can count up to 6 credits of E C E 399 Independent Study, E C E 489 Honors in Research or E C E 699 Advanced Independent Study towards advanced electives.
- Students can take E C E 379 Special Topics in Electrical and Computer Engineering and E C E 601 Special Topics in Electrical and Computer Engineering as advanced electives.

### Laboratory

Code	Title	Credits
<i>Select at least one course from ECE 301 to ECE 317</i>		
<i>An additional laboratory course must be taken from the following list:</i>		
E C E 303	Introduction to Real-Time Digital Signal Processing	
E C E 304	Electric Machines Laboratory	
E C E 305	Semiconductor Properties Laboratory	
E C E 306	Linear Active Circuits Laboratory	
E C E 308	Nonlinear Electronic Circuits Laboratory	
E C E 313	Optoelectronics Lab	
E C E 315	Introductory Microprocessor Laboratory	
E C E 317	Sensors Laboratory	
E C E 432	Digital Signal Processing Laboratory	
E C E 453	Embedded Microprocessor System Design	
E C E 504	Electric Machine & Drive System Laboratory	
E C E 512	Power Electronics Laboratory	
E C E 545	Advanced Microwave Measurements for Communications	
E C E 549	Integrated Circuit Fabrication Laboratory	
E C E 554	Digital Engineering Laboratory	
E C E/M E 577	Automatic Controls Laboratory	

**Fields & Waves**

Code	Title	Credits
E C E 320	Electrodynamics II	3
E C E 420	Electromagnetic Wave Transmission	3
E C E 434	Photonics	3
E C E 440	Electromagnetic Fields and Waves	3
E C E/N E/ PHYSICS 525	Introduction to Plasmas	3
E C E/N E/ PHYSICS 527	Plasma Confinement and Heating	3
E C E/N E 528	Plasma Processing and Technology	3
E C E 536	Integrated Optics and Optoelectronics	3
E C E/PHYSICS 546	Lasers	2-3
E C E 547	Advanced Communications Circuit Design <sup>1</sup>	3

**Systems & Control**

Code	Title	Credits
E C E 332	Feedback Control Systems	3
E C E 334	State Space Systems Analysis	3
E C E/M E 439	Introduction to Robotics <sup>1</sup>	3
E C E/B M E 461	Mathematical and Computer Modeling of Physiological Systems	3
E C E/M E 577	Automatic Controls Laboratory <sup>1</sup>	4

**Power & Machines**

Code	Title	Credits
E C E 355	Electromechanical Energy Conversion	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
E C E 411	Introduction to Electric Drive Systems	3
E C E 412	Power Electronic Circuits <sup>1</sup>	3
E C E 427	Electric Power Systems	3
E C E 504	Electric Machine & Drive System Laboratory	2-3
E C E 511	Theory and Control of Synchronous Machines	3
E C E 512	Power Electronics Laboratory <sup>1</sup>	3

**Communications & Signal Processing**

Code	Title	Credits
E C E 331	Introduction to Random Signal Analysis and Statistics	3
E C E 431	Digital Signal Processing <sup>1</sup>	3
E C E 432	Digital Signal Processing Laboratory <sup>1</sup>	3
E C E/COMP SCI/ MATH 435	Introduction to Cryptography	3
E C E 436	Communication Systems I <sup>1</sup>	3
E C E 437	Communication Systems II <sup>1</sup>	3
E C E 447	Applied Communications Systems <sup>1</sup>	3

E C E/COMP SCI/ M E 532	Theory and Applications of Pattern Recognition <sup>1</sup>	3
E C E/COMP SCI 533	Image Processing <sup>1</sup>	3
E C E 537	Communication Networks <sup>1</sup>	3
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Network and Fuzzy Systems <sup>1</sup>	3
E C E/MATH 641	Introduction to Error-Correcting Codes	3

**Circuits & Devices**

Code	Title	Credits
E C E 335	Microelectronic Devices	3
E C E 342	Electronic Circuits II	3
E C E 401	Electro-Acoustical Engineering	3
E C E 445	Semiconductor Physics and Devices	3
E C E/B M E 462	Medical Instrumentation <sup>1</sup>	3
E C E 466	Electronics of Solids	3
E C E 541	Analog MOS Integrated Circuit Design <sup>1</sup>	3
E C E 542	Introduction to Microelectromechanical Systems <sup>1</sup>	3
E C E/CBE/ M S & E 544	Processing of Electronic Materials	3
E C E 545	Advanced Microwave Measurements for Communications <sup>1</sup>	3
E C E 548	Integrated Circuit Design <sup>1</sup>	3
E C E 549	Integrated Circuit Fabrication Laboratory <sup>1</sup>	3
E C E 555	Digital Circuits and Components <sup>1</sup>	3

**Computers & Computing**

Code	Title	Credits
E C E 353	Introduction to Microprocessor Systems	3
E C E 453	Embedded Microprocessor System Design <sup>1</sup>	4
E C E 454	Mobile Computing Laboratory <sup>1</sup>	4
E C E/B M E 463	Computers in Medicine	3
E C E 551	Digital System Design and Synthesis <sup>1</sup>	3
E C E/COMP SCI 552	Introduction to Computer Architecture	3
E C E 553	Testing and Testable Design of Digital Systems <sup>1</sup>	3
E C E 554	Digital Engineering Laboratory <sup>1</sup>	4
E C E 556	Design Automation of Digital Systems <sup>1</sup>	3

<sup>1</sup> Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

**PROFESSIONAL ELECTIVES**

Code	Title	Credits
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*Classes to be taken in an area of professional interest. The following courses are acceptable as professional electives if the courses are not used to meet any other degree requirements.*

MATH/ COMP SCI 240	Introduction to Discrete Mathematics	9
E C E 320	Electrodynamics II	
E C E 331	Introduction to Random Signal Analysis and Statistics	
E C E 332	Feedback Control Systems	
E C E 334	State Space Systems Analysis	
E C E 335	Microelectronic Devices	
E C E 342	Electronic Circuits II	
E C E 353	Introduction to Microprocessor Systems	
E C E/ COMP SCI 354	Machine Organization and Programming	
E C E 355	Electromechanical Energy Conversion	
E C E 356	Electric Power Processing for Alternative Energy Systems	
COMP SCI 367	Introduction to Data Structures	
ECE courses numbered 399 and higher		
Computer Science courses numbered 400 and higher		
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 340	Elementary Matrix and Linear Algebra	
MATH 341	Linear Algebra	
Math courses numbered 400 and higher		
Statistics courses numbered 400 and higher		
Any biological science course that is designated as intermediate or advanced		
Any physical science course that is designated as intermediate or advanced		
Any natural science course that is designated as advanced except that Math, Computer Sciences, and Statistics courses must follow the above criteria		
Engineering courses numbered 300 and higher that are not ECE or cross-listed with ECE		
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
M H R 322	Introduction to Entrepreneurial Management	
M H R 434	Venture Creation	
M H R 441	Technology Entrepreneurship	

DS 501	Special Topics (Wearable Technologies)
DANCE 560	Current Topics in Dance: Workshop (Making Digital Lighting Controls)

**INTRODUCTION TO ENGINEERING**

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
Total Credits		1

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 397	Technical Communication	3
Total Credits		6

**LIBERAL STUDIES ELECTIVES**

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete requirements (p. 200) <sup>1</sup>		15
Total Credits		15

<sup>1</sup> All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. **Note:** See an ECE advisor and/or the EE Curriculum Guide for additional information.

**TOTAL DEGREE CREDITS: 120****LEARNING OUTCOMES**

At the time of graduation, UW-Madison Electrical Engineering students will have attained:

- an ability to apply knowledge of mathematics, science, and engineering.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- an ability to function on multidisciplinary teams.
- an ability to identify, formulate, and solve engineering problems.
- an understanding of professional and ethical responsibility.
- an ability to communicate effectively.
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- a recognition of the need for, and an ability to engage in life-long learning.
- a knowledge of contemporary issues.



- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
CHEM 109	5 PHYSICS 201	5
MATH 221	5 MATH 222	4
E C E 210	2 INTEREGR 110	1
Communications A	3 Liberal Studies Elective	3
	E C E/COMP SCI 252	2
	15	15

#### Second Year

Fall	Credits Spring	Credits
PHYSICS 202	5 E C E 220	3
MATH 234	4 COMP SCI 300	3
E C E 219	1 E C E 330	3
E C E 203	3 E C E 230	4
Liberal Studies Elective	3 E C E 270	1
	16	14

#### Third Year

Fall	Credits Spring	Credits
E C E/PHYSICS 235	3 ECE Advanced Elective	3
Professional Elective	3 ECE Advanced Elective	3
Statistics/Probability Elective	3 E P D 397	3
E C E 340	3 EE Advanced Lab (3XX)	1
E C E 271	1 Liberal Studies Elective	3
E C E/COMP SCI 352	3 Professional Elective	3
	16	16

#### Fourth Year

Fall	Credits Spring	Credits
Liberal Studies Elective	3 Professional Elective	3
ECE Advanced Elective	3 ECE Advanced Elective	4
ECE Advanced Elective	3 ECE Capstone Design	3
EE Advanced Lab (3XX)	1 Liberal Studies Elective	3
E C E 370	2	
ECE Advanced Elective	3	
	15	13

Total Credits 120

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

## ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Booske (chair)  
Anderson  
Barmish  
Behdad  
Boston  
Botez  
DeMarco  
Gubner (vice chair)  
Hagness  
Hitchon  
Hu  
Jahns  
Jiang\*  
Knezevic  
Lesieutre  
Lipasti  
Ma  
Mawst  
Nowak  
Ramanathan (vice chair)  
Sayeed  
Sethares  
Shohet  
van der Weide  
Van Veen  
Venkataramanan  
Wendt

### ASSOCIATE PROFESSORS

Davoodi  
Milenkovic  
Morrow  
Willett

### ASSISTANT PROFESSORS

Farrell  
Fawaz  
Jog  
Kats  
Kim  
Lessard  
Li

Loh  
Ludois  
Papailiopoulos  
Severson  
Velten  
Yu

## FACULTY ASSOCIATES

Allie  
Fredette  
Hoffman  
Krachey  
Milicic  
Morrow  
Lu

\*For scholarship information, please contact Professor Jiang.

## ENGINEERING - COLLEGE-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Biology in Engineering for Engineering Majors, Certificate (p. 242)
- International Engineering, Certificate (p. 243)
- Naval Science, BNS (p. 244)

## BIOLOGY IN ENGINEERING FOR ENGINEERING MAJORS, CERTIFICATE

The biology in engineering certificate (BEC) is designed for engineering students who want to strengthen their biology backgrounds. It is offered especially to encourage engineering students in traditional disciplines to prepare themselves to understand the special engineering problems in biology and medicine. A student successfully fulfilling the requirements will have the notation "Biology in Engineering Certificate" added to the transcript.

### REQUIREMENTS

The 15-credit biology in engineering certificate was designed and will be administered by a Biology in Engineering Certificate Committee composed of faculty from multiple engineering disciplines. Students normally should begin the program during their sophomore or junior year, but seniors may also apply.

The certificate requires a minimum of 15 credits:

### GENERAL BIOLOGY: 5 CREDITS

Code	Title	Credits
<b>Choose one combination:</b>		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	5

ZOOLOGY/BIOLOGY/ BOTANY 151	Introductory Biology	5
ZOOLOGY/BIOLOGY/ BOTANY 152	Introductory Biology	5
ZOOLOGY 153 & BIOLOGY/ ZOOLOGY 102	Introductory Biology and Animal Biology Laboratory	5

### ADVANCED BIOLOGY: 5-CREDIT MINIMUM

Code	Title	Credits
<b>Advanced Biology (5 cr. minimum): Recommended to choose a lecture/lab combination</b>		
BIOCORE 485 & BIOCORE 486	Organismal Biology and Organismal Biology Laboratory	5
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BMOLCHEM 314	Introduction to Human Biochemistry	3
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	5
MICROBIO/ FOOD SCI 324 & MICROBIO/ FOOD SCI 325	Food Microbiology Laboratory and Food Microbiology	5
MICROBIO 330	Host-Parasite Interactions	3
M M & I 301 & M M & I 302	Pathogenic Bacteriology and Medical Microbiology Laboratory	5
M M & I 341	Immunology	3
M M & I/MICROBIO/ PATH-BIO 528 & M M & I/PATH- BIO 529	Immunology and Immunology Laboratory	5
PHYSIOL 335	Physiology	5
PHYSIOL 435	Fundamentals of Human Physiology	5
ZOOLOGY/ ENVIR ST 315 & ZOOLOGY 316	Limnology-Conservation of Aquatic Resources and Laboratory for Limnology- Conservation of Aquatic Resources	4-5
ZOOLOGY/ENTOM/ M M & I/PATH- BIO 350 & ZOOLOGY/M M & I/ PATH-BIO 351	Parasitology and Parasitology Laboratory	5
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
GENETICS 466 & GENETICS 545	Principles of Genetics and Genetics Laboratory	5
ZOOLOGY 470 & ZOOLOGY 555	Introduction to Animal Development and Laboratory in Developmental Biology	6
ZOOLOGY 504	Modeling Animal Landscapes	3-5

ZOOLOGY/ ENVR ST 510 & ZOOLOGY/ ENVR ST 511	Ecology of Fishes and Ecology of Fishes Lab	5
ZOOLOGY/ PSYCH 523 & ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology and Neurobiology II: An Introduction to the Brain and Behavior	6
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 611 & ZOOLOGY 612	Comparative and Evolutionary Physiology and Comparative Physiology Laboratory	5

### BIOLOGY IN ENGINEERING: 3-CREDIT MINIMUM

Code	Title	Credits
<b>Biology in Engineering (3 cr. minimum): Choose one</b>		
B M E/PHM SCI 430	Biological Interactions with Materials	3
B M E/E C E 462	Medical Instrumentation	3
B M E 505	Biofluidics	3
B M E/CBE 510	Introduction to Tissue Engineering	3
B M E/CBE 520	Stem Cell Bioengineering	3
B M E 545	Engineering Extracellular Matrices	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E/M E 603	Topics in Bio-Medical Engineering (Biomechanics of Movement or Orthopaedic Biomechanics)	1-3
B M E 615	Tissue Mechanics	3
B M E/ANATOMY/ CHEM/MED PHYS/ PHM COL-M/ PHYSICS/ RADIOL 619	Microscopy of Life	3
BSE 249	Engineering Principles for Biological Systems	3
BSE 349	Quantitative Techniques for Biological Systems	3
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/FOOD SCI/ M E 441	Rheology of Foods and Biomaterials	3
BSE/FOOD SCI 542	Food Engineering Operations	4
BSE/FOOD SCI 642	Food and Pharmaceutical Separations	2-3
CBE/B M E 560	Biochemical Engineering	3
CBE 781	Biological Engineering: Molecules, Cells & Systems	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3
CIV ENGR 502	Environmental Organic Chemistry	3

CIV ENGR/ SOIL SCI 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
COMP SCI/B M I 576	Introduction to Bioinformatics	3
E C E 542	Introduction to Microelectromechanical Systems	3
I SY E/B M E 564	Occupational Ergonomics and Biomechanics	3
INTEREGR 301	Engineering and Biology: Technological Symbiosis	1-4

### SEMINAR: 1 CREDIT

Code	Title	Credits
Seminar Course (1 cr.): Choose one		
B M E/BSE/CBE 517	Biology in Engineering Seminar	1
B M E 515	Therapeutic Medical Devices	1

## INTERNATIONAL ENGINEERING, CERTIFICATE

The certificate in international engineering provides recognition for a student's efforts to prepare for an international career by learning about one or more countries outside the United States. An undergraduate student in the College of Engineering or the Department of Biological Systems Engineering can earn the certificate by completing at least 16 credits in courses with a primary focus on the language, culture, history, geography, society, or institutions of a particular country or region of the world.

### REQUIREMENTS

## CERTIFICATE COURSE REQUIREMENTS

### LANGUAGE COURSES

Although not required, a maximum of 9 credits may be devoted to courses in a foreign language. Only foreign language courses beyond the initial 8 credits in that particular language may be used to satisfy this requirement. A maximum of 3 credits from Independent Study or Directed Study may be counted toward either the language requirement or the area studies requirement. Advanced Placement credits, foreign language retroactive credits, and transfer credits are accepted.

### AREA STUDIES COURSES

A minimum of 6 credits must be devoted to courses with a major emphasis on the culture, history, geography, society, or institutions of one country or the countries in a geographically identifiable region of the world. These courses must be selected from at least two departments. A maximum of 3 credits from Independent Study or Directed Study may be counted toward either the language requirement or the area studies requirement. Advanced Placement credits, foreign language retroactive credits, and transfer credits are accepted.

### INTERNATIONAL EXPERIENCE

A documented minimum stay of five weeks for study or work (including internship and co-op) in the designated country or region is required.

## INTERNATIONAL ENGINEERING COURSE

After one's international experience, successful completion of the 1-credit course INTEREGR 413 Current Issues in International Engineering is required.

Each student must submit an application to the certificate advisor in his or her department for approval. Only students with a GPA of at least 2.75 who have met progression requirements may apply. The application and list of advisors are available on the Certificate in International Engineering website (<https://www.engr.wisc.edu/academics/undergraduate-academics/certificate-in-international-engineering>). Students may not elect the pass/fail option for any course that is used to satisfy the requirements for the certificate. However, courses taken on a study abroad program through International Engineering Studies and Programs (IESP) (<http://international.engr.wisc.edu>) are exempt from this grading requirement. Successful completion of certificate requirements will be noted on the student's official transcript. For additional information, contact International Engineering Studies and Programs (<http://international.engr.wisc.edu>) (Room 170, 1410 Engineering Drive; [international@engr.wisc.edu](mailto:international@engr.wisc.edu)).

## NAVAL SCIENCE, BNS

The College of Engineering recommends candidates for the bachelor of naval science degree.

Earning both the BNS degree and the B.S. degree in the field of engineering may require five years. Engineering students in an ROTC program may require four and one-half to five years to complete both degree and commissioning requirements.

For additional information see the Officer Education (p. 1169) section of the *Guide*.

## HOW TO GET IN

The naval science BNS is not a stand-alone degree. Students interested in pursuing this degree should consult with the Navy ROTC: 1610 University Ave, Madison, WI 53726 | 608-262-3794 | [nrotc.admin@wisc.edu](mailto:nrotc.admin@wisc.edu)

## REQUIREMENTS

The College of Engineering recommends candidates for the bachelor of naval science degree. Requirements for the degree are:

1. A total of 136 credits including no fewer than 100 credits of elected and required courses in one of the engineering curricula.
2. Completion of these additional requirements as approved by the Department of Naval Science: English, two semesters; American Military Affairs/National Security Policy, one semester

Earning both the BNS degree and the B.S. degree in the field of engineering may require five years. Engineering students in an ROTC program may require four and one-half to five years to complete both degree and commissioning requirements.

## LEARNING OUTCOMES

1. Understand and apply the fundamentals and principles of Naval Science.
2. Understand and apply Naval Science professional knowledge and core competencies.
3. Be prepared to perform successfully in the technical and critical reasoning requirements of their careers and pursue continuing education in a field of application within the Naval Service.
4. Understand and demonstrate a strong sense of personal integrity, honor, and individual responsibility and associated ethical leadership required of military officers.

## ADVISING AND CAREERS

Naval science BNS students should meet with the Navy ROTC for advising:

1610 University Avenue Madison, WI 53726; 608-262-3794; [nrotc.admin@wisc.edu](mailto:nrotc.admin@wisc.edu)

## ENGINEERING PHYSICS

The Department of Engineering Physics offers the B.S. degree in engineering physics. The degree is designed for the ever-changing technologies in emerging technological areas to graduates who will become a source of qualified employees for high tech, start-up companies and traditional engineering firms, as well as be prepared for advanced graduate degrees.

Students specialize in a technological focus area such as: nanoengineering, plasma science and engineering, and scientific computing.

Distinguishing features of the engineering physics degree include: strong emphasis on math and physics, and engineering fundamentals; choice of a technical focus area beginning in the junior year; emphasis on research project, culminating in a senior thesis.

## DEGREES/MAJORS/CERTIFICATES

- Engineering Mechanics, B.S. (p. 245)
- Engineering Physics, B.S. (p. 251)
- Engineering for Energy Sustainability, Certificate (p. 256)
- Nuclear Engineering Materials, Certificate (p. 258)
- Nuclear Engineering, B.S. (p. 258)

## PEOPLE

### PROFESSORS

Henderson (chair)  
T. Allen  
Blanchard  
Bonazza  
Crone  
Drugan  
Fonck

Hegna  
 Kammer  
 Lakes  
 Smith (also Mathematics)  
 Sovinec  
 Waleffe (also Mathematics)  
 Wilson

## ASSOCIATE PROFESSORS

M. Allen  
 Witt

## ASSISTANT PROFESSORS

Couet  
 Notbohm  
 Scarlat  
 Schmitz

## AFFILIATE FACULTY

See department website for list.

## RESOURCES AND SCHOLARSHIPS

## FACILITIES

Facilities available for instruction and research include:

Fluid Mechanics and Heat Transfer Laboratories  
 Instructional Computing Labs (in Computer Aided Engineering)  
 Nanomechanics Laboratory  
 Nuclear Instrumentation Laboratory  
 Plasma Physics Laboratories  
 Superconductivity and Cryogenics Laboratories

## ENGINEERING MECHANICS, B.S.

The Department of Engineering Physics administers the B.S., M.S., and Ph.D. degrees in engineering mechanics. The B.S. degree in engineering mechanics may be accompanied by an option in astronautics.

*Engineering mechanics* is the scholarly term for the study of forces and the resulting deformations, accelerations, motions, vibrations and other action that they cause. As such, engineering mechanics forms the foundation of a degree in aerospace, mechanical or civil engineering and it is fundamental to important parts of biomedical engineering, chemical engineering, materials science, mechanical engineering and a few other engineering disciplines. Hence, a degree in engineering mechanics provides a broad basic scientific background which enables its graduates to tackle challenging problems in most fields of engineering. The curriculum emphasizes the basic sciences—mathematics, computer science, physics and the engineering sciences—fluid dynamics, thermodynamics, mechanics, materials science, and electrical engineering. Although the degree program is entitled engineering mechanics at UW–Madison, the program is most comparable to aerospace engineering and mechanical engineering programs at various universities across the United States. However, internationally, this field is more commonly known as “mechanics” rather than “mechanical engineering” or “aerospace engineering.” A few select universities in the United States offer programs that are similar

to UW–Madison’s engineering mechanics program under titles such as “engineering science” or “theoretical and applied mechanics.”

The objective of the program is to provide the student with a broad background in the fundamental physical sciences and applied mathematics, coordinated with both theoretical and applied engineering methods and experimental techniques. This type of educational background will give the student the degree of versatility necessary for dealing with the variety and complexity of modern technological problems as well as the ability to adapt to the rapidly changing needs and interests of industry, government, and society.

An education in engineering mechanics provides many advantages. First, the foundation offered by a degree in mechanics allows our graduates to more easily interact with co-workers on interdisciplinary teams including chemists, physicists, and mathematicians. Second, many industrial organizations prefer engineers that have a broad, fundamental scientific background rather than a narrow view of just one discipline. Third, and probably most important, great changes have taken place in science and engineering during recent years. Among the most important of these have been the rapid diffusion of scientific knowledge and disciplines into engineering, the increasing use of analytical and computer methods for the solution of practical problems, the need for a better understanding of the properties and behavior of materials, and the increasing need for engineers who can adapt known methods to new situations and develop new experimental and analytical methods. By focusing on core competency in physics and applied mathematics the engineering mechanics degree prepares students for these challenges.

The required courses taken early in the curriculum are intended to give the student a fundamental background in mathematics, science, and engineering. In addition to developing versatility through exposure to important concepts in various scientific fields, the required courses allow the students to identify areas of interest. With the relatively large number of elective credits available in the latter part of the program, the student may either continue to follow a general program or may prefer to concentrate elective courses in such areas as stress analysis and structural mechanics, dynamics and vibrations, aerodynamics and flight mechanics, experimental mechanics, applied mathematics, materials science, geological engineering, biomechanics, aerospace mechanics, mechanical systems analysis, etc.

Engineering mechanics graduates are sought by most industries and governmental agencies including in particular those participating in the newly developing areas of engineering such as space technology, performance of new structural materials, and so on. Their work often involves participation in design, research and development projects where the problems are sufficiently complex or unusual that their solutions require engineers with (1) a thorough understanding of the fundamentals of engineering, (2) advanced education in the established experimental and analytical methods, and (3) the ability to develop new experimental and analytical methods to attack problems for which standard methods, formulas, and materials have not yet been developed. The program also provides excellent preparation for graduate study in a variety of related disciplines.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/> apply) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first

choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

## CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

The following curriculum applies to students who entered the College of Engineering after fall 2016.

## ENGINEERING MECHANICS CURRICULUM SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	22
	Science	13
	Engineering Science	26
	Engineering Mechanics Core	31
	EMA Electives	9
	Communication Skills	8
	Liberal Studies	16
	Technical Electives	3
	<b>Total Credits</b>	<b>128</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4-5
or MATH 276	Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 224	Introductory Statistics for Engineers	3
	<b>Total Credits</b>	<b>22-23</b>

**SCIENCE**

Code	Title	Credits
CHEM 109	Advanced General Chemistry (or CHEM 103 & 104)	5
PHYSICS 202	General Physics	5
PHYSICS 241 or PHYSICS 205	Introduction to Modern Physics Modern Physics for Engineers	3
Total Credits		13

**ENGINEERING SCIENCE**

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
M E 231	Introductory Engineering Graphics	2
E P 271 or COMP SCI 310	Engineering Problem Solving I Problem Solving Using Computers	3
M S & E 350	Introduction to Materials Science	3
M E 361	Thermodynamics	3
M E 363 or CIV ENGR 310	Fluid Dynamics Fluid Mechanics	3
M E 364	Elementary Heat Transfer	3
E C E 376 or PHYSICS 321	Electrical and Electronic Circuits Electric Circuits and Electronics	3
Computing Elective <sup>1</sup>		3
Total Credits		26

<sup>1</sup> Choose from COMP SCI 367 Introduction to Data Structures, COMP SCI 412 Introduction to Numerical Methods, E M A/E P 471 Intermediate Problem Solving for Engineers, N E 602 Special Topics in Reactor Engineering

**ENGINEERING MECHANICS CORE**

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
E M A 303	Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
E M A 405	Practicum in Finite Elements	3
E M A 469	Design Problems in Engineering	3
E M A 506	Advanced Mechanics of Materials I	3
<i>Select one of the following:</i>		3
E M A/M E 570	Experimental Mechanics	
E M A/M E 540	Experimental Vibration and Dynamic System Analysis	
E M A 611	Advanced Mechanical Testing of Materials	
E M A 522	Aerodynamics Lab	
E M A 521	Aerodynamics	3
E M A 542	Advanced Dynamics	3
E M A 569	Senior Design Project	3
Total Credits		31

**ENGINEERING MECHANICS AND ASTRONAUTICS ELECTIVES**

Code	Title	Credits
Select 9 credits from any EMA course numbered 500 and above		9

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100 or COM ARTS 100 or LSC 100 or ESL 118	Introduction to College Composition Introduction to Speech Composition Science and Storytelling Academic Writing II	3
E P D 275	Technical Presentations	2
E P D 397	Technical Communication	3
Total Credits		8

**TECHNICAL ELECTIVES**

Code	Title	Credits
Select 3 credits at a level that requires two semesters of calculus or two semesters of physics.		3

**LIBERAL STUDIES**

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 200) <sup>1</sup>		16
Total Credits		16

- <sup>1</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:
1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
  2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
  3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. *Note:* Some courses may have "e" designation but not H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

**TOTAL CREDITS: 121**

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<https://www.engr.wisc.edu/academics/student-services/academic-advising/undergraduate-engineering-students/rules-and-regulations>).

**ASTRONAUTICS OPTION IN ENGINEERING MECHANICS**

The astronautics option in engineering mechanics prepares students for design, development, and research, with an emphasis on applied mathematics and astronautics. Its purpose is to improve and expand the educational opportunities of students at the university who wish

to pursue careers in astronautics and space-related areas. This is accomplished by providing in depth exposure to course sequences in astrodynamics, orbital mechanics, and flight dynamics, as well as a core curriculum of structural and material analysis, advanced dynamics, and vibrations. The program requires a minimum of 127 credits; students selecting this option must submit an option declaration form to the department office.

The following curriculum applies to students who entered the College of Engineering after May 2001.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	22
	Science	13
	Engineering Science	26
	Engineering Mechanics/Astronautics Core	40
	EMA Electives	3
	Communication Skills	8
	Liberal Studies	16
	<b>Total Credits</b>	<b>128</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
	or MATH 217 Calculus with Algebra and Trigonometry II	
	or MATH 275 Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
	or MATH 276 Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 224	Introductory Statistics for Engineers	3
	or STAT 324 Introductory Applied Statistics for Engineers	
	<b>Total Credits</b>	<b>22</b>

## SCIENCE

Code	Title	Credits
CHEM 109	Advanced General Chemistry (or CHEM 103 & 104)	5
PHYSICS 202	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
	or PHYSICS 205 Modern Physics for Engineers	
	<b>Total Credits</b>	<b>13</b>

## ENGINEERING SCIENCE

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
M E 231	Introductory Engineering Graphics	2
E P 271	Engineering Problem Solving I	3
	or COMP SCI 310 Problem Solving Using Computers	
M E 361	Thermodynamics	3

M E 363	Fluid Dynamics	3
	or CIV ENGR 310 Fluid Mechanics	
E C E 376	Electrical and Electronic Circuits	3
M E 364	Elementary Heat Transfer	3
E C E 332	Feedback Control Systems	3
	or M E 446 Automatic Controls	
	Computing Elective <sup>1</sup>	3
	<b>Total Credits</b>	<b>26</b>

<sup>1</sup> Choose from COMP SCI 367 Introduction to Data Structures, COMP SCI 412 Introduction to Numerical Methods, E M A/ E P 471 Intermediate Problem Solving for Engineers, N E 602 Special Topics in Reactor Engineering

## ENGINEERING MECHANICS/ASTRONAUTICS CORE

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
E M A 303	Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
E M A 405	Practicum in Finite Elements	3
E M A 469	Design Problems in Engineering	3
E M A 506	Advanced Mechanics of Materials I	3
	Select one of the following:	3
	E M A/M E 540 Experimental Vibration and Dynamic System Analysis	
	E M A/M E 570 Experimental Mechanics	
	E M A 611 Advanced Mechanical Testing of Materials	
	E M A 522 Aerodynamics Lab	
E M A 521	Aerodynamics	3
E M A 542	Advanced Dynamics	3
E M A 545	Mechanical Vibrations	3
E M A/ASTRON 550	Astrodynamics	3
E M A 569	Senior Design Project	3
E M A 642	Satellite Dynamics	3
	<b>Total Credits</b>	<b>40</b>

## TECHNICAL ELECTIVES

Code	Title	Credits
	Select three credits at an academic level that requires 2 semesters of calculus or 2 semesters of physics as a pre-requisite. E M A 1 may also be used to satisfy this requirement.	3

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
	or COM ARTS 100 Introduction to Speech Composition	
	or LSC 100 Science and Storytelling	
	or ESL 118 Academic Writing II	
E P D 275	Technical Presentations	2



E P D 397	Technical Communication	3
Total Credits		8

## LIBERAL STUDIES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 200) <sup>1</sup>		16
Total Credits		16

- <sup>1</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:
1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
  2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
  3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. *Note:* Some courses may have "e" designation but not H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<https://www.engr.wisc.edu/academics/student-services/academic-advising/undergraduate-engineering-students/rules-and-regulations>).

## HONORS OPTIONS

### ENGINEERING MECHANICS SCHOLARS AND DISTINGUISHED SCHOLARS PROGRAM

Students who achieve at least a 3.0 GPA in their first semester, and maintain it throughout their career, may be designated Scholars. They also may be exempted from some formal requirements for the Bachelor of Science in Engineering Mechanics degree other than total credits. However, they must meet certain restrictions on the distribution of courses chosen. Students who achieve at least a 3.70 grade point average (GPA) for the first semester of the freshman year or a 3.5 GPA for the first four semesters, may be designated Distinguished Scholars. These students, with the approval of their advisor, may be exempted from most formal requirements for the Bachelor of Science in Engineering Mechanics degree other than the total credit hours, so long as they maintain a satisfactory performance record and the main thrust of their work is along the lines of engineering mechanics education. The general education and liberal studies requirements must be met by Scholars and Distinguished Scholars. Students transferring into the engineering mechanics degree program may be eligible to qualify for either of these scholars programs as late as the beginning of the seventh semester.

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn a Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## LEARNING OUTCOMES

- an ability to identify, formulate, and solve engineering problems. This includes:
  - a. an ability to apply knowledge of basic mathematics, science and engineering.
  - b. an ability to use advanced mathematical and computational techniques to analyze, model, and design physical systems consisting of solid and fluid components under steady state and transient conditions.
  - c. an ability to design a system, component or process to meet desired needs.
  - d. an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to function on multi-disciplinary teams.
- knowledge of professional and ethical standards.
- an ability to communicate effectively.
- the broad education necessary to understand the impact of engineering solutions in a global and societal context.
- a recognition of the need for, and ability to engage in life-long learning.
- a knowledge of contemporary issues.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

First Year		
Fall	Credits Spring	Credits
CHEM 109 <sup>1</sup>	5 E M A 201 <sup>3</sup>	3
MATH 221	5 MATH 222	4
Communications A	3 STAT 224 or 324	3
INTEREGR 110	1 M E 231	2
INTEREGR 170 <sup>2</sup>	2 Liberal Studies Elective	3
		16
		15
Second Year		
Fall	Credits Spring	Credits
MATH 234	4 MATH 320	3
PHYSICS 202	5 PHYSICS 241 or 205	3
E M A 202	3 M E 361	3
E P 271 or COMP SCI 310	3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105	2 E M A/M E 307 <sup>4</sup>	1
		Liberal Studies Elective
		3
		17
		16
Third Year		
Fall	Credits Spring	Credits
E M A 506	3 E M A 405	3
E M A 542 or 545 <sup>5</sup>	3 Experimental Mechanics Course <sup>6</sup>	3

MATH 321	3 M E 363 or CIV ENGR 310	3
M S & E 350	3 Computing Elective	3
E P D 397	3 Technical Elective	3
Liberal Studies Elective	3	
	18	15

**Fourth Year**

Fall	Credits Spring	Credits
E M A 469	3 E M A 569	3
E M A 521 <sup>7</sup>	3 EMA Elective	3
EMA Elective	3 EMA Elective	3
E C E 376	3 M E 364	3
Liberal Studies Elective	4 Liberal Studies Elective	3
	16	15

Total Credits 128

<sup>1</sup> Students should take CHEM 109 Advanced General Chemistry, 5 cr; students with inadequate preparation in high school chemistry may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

<sup>2</sup> Students who were not able to take INTEREGR 170 Design Practicum as freshmen may, with the approval of their advisor, substitute 2 credits of electives from courses offered in the College of Engineering or in the departments of Chemistry, Computer Sciences, Mathematics, and Physics.

<sup>3</sup> Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

<sup>4</sup> M E 306 Mechanics of Materials and M E/M A 307 Mechanics of Materials Lab are acceptable substitutions for E M A 303 Mechanics of Materials and E M A/M E 307 Mechanics of Materials Lab.

<sup>5</sup> Students electing E M A 545 Mechanical Vibrations instead of E M A 542 Advanced Dynamics should note that E M A 545 Mechanical Vibrations is offered in the spring semester only.

<sup>6</sup> E M A 611 Advanced Mechanical Testing of Materials or E M A/M E 540 Experimental Vibration and Dynamic System Analysis or E M A/M E 570 Experimental Mechanics or E M A 522 Aerodynamics Lab. Note that E M A/M E 540 Experimental Vibration and Dynamic System Analysis is typically offered in the fall.

<sup>7</sup> M E 563 Intermediate Fluid Dynamics may be substituted for E M A 521 Aerodynamics.

## ASTRONAUTICS OPTION IN ENGINEERING MECHANICS

### EXAMPLE FOUR YEAR PLAN

**First Year**

Fall	Credits Spring	Credits
CHEM 109	5 E M A 201	3
MATH 221	5 MATH 222	4
Communications A	3 STAT 224	3
INTEREGR 110	1 M E 231	2
INTEREGR 170	2 Liberal Studies Elective	3
	16	15

**Second Year**

Fall	Credits Spring	Credits
MATH 234	4 MATH 320	3
PHYSICS 202	5 PHYSICS 241 or 205	3
E M A 202	3 M E 361	3
E P 271	3 E M A 303	3
E P D 275 or COM ARTS 105	2 E M A/M E 307	1
	Liberal Studies Elective	3
	17	16

**Third Year**

Fall	Credits Spring	Credits
E M A 506	3 E M A 545	3
E M A 405	3 E M A/ASTRON 550	3
M E 363 or CIV ENGR 310	3 E M A 611, 540, 570, or 522	3
MATH 321	3 M E 364	3
E P D 397	3 Computing Elective	3
Liberal Studies Elective	3	
	18	15

**Fourth Year**

Fall	Credits Spring	Credits
E M A 469	3 E M A 569	3
E M A 521	3 E M A 642	3
E M A 542	3 E C E 332 or M E 446	3
E C E 376	3 Technical Elective	3
Liberal Studies Elective	3 Liberal Studies Elective	3
	15	15

Total Credits 127

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Henderson (chair)  
 T. Allen  
 Blanchard  
 Bonazza  
 Crone  
 Drugan  
 Fonck  
 Hegna  
 Kammer  
 Lakes  
 Smith (also Mathematics)  
 Sovinec  
 Waleffe (also Mathematics)  
 Wilson

### ASSOCIATE PROFESSORS

M. Allen  
 Witt

### ASSISTANT PROFESSORS

Couet  
 Notbohm  
 Scarlat  
 Schmitz

### AFFILIATE FACULTY

See department website for list.

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Mechanics Holographic Lab  
 Viscoelasticity and Composites Lab  
 Wisconsin Laboratory for Structures and Materials Testing: Materials Testing Lab  
 Wind Tunnel Laboratory  
 Structural Mechanics Lab  
 Structural Dynamics and Vibrations Lab  
 Fatigue/Fracture Lab  
 Instructional Computing Lab (in Computer Aided Engineering)  
 Research Computing Lab

## ENGINEERING PHYSICS, B.S.

The Department of Engineering Physics offers the B.S. degree in engineering physics. The degree is designed to provide graduates with skills in emerging technological areas. These graduates are highly prepared to pursue advanced graduate degrees and will become a source of qualified employees for high-tech start-up companies and traditional engineering firms, as well as positions in academia, government, and national laboratories.

Students specialize in one of three technological focus areas: nanoengineering, plasma science and engineering, and scientific computing.

Distinguishing features of the engineering physics degree include a strong emphasis on math, physics, and engineering fundamentals; choice of a technical focus area; and emphasis on research as part of a campus research group or through individually mentored research with a faculty member, culminating in a senior thesis.

### OBJECTIVES OF THE ENGINEERING PHYSICS PROGRAM

The objectives of the engineering physics program are to:

- Educate students to think and participate deeply, creatively, and analytically in emerging areas of engineering technology.
- Educate students in the basics of instrumentation, design of laboratory techniques, measurement, data acquisition, interpretation, and analysis.
- Educate students in the methodology of research.
- Provide and facilitate teamwork and multidisciplinary experiences throughout the curriculum.
- Foster the development of effective oral and written communication skills.
- Expose students to environmental, ethical and contemporary issues.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying

to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

The following curriculum applies to students who entered the program after fall 2016.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
Mathematics and Statistics		25
Science		28
Engineering Science		25-27
Focus Area		22
Technical Electives		6
Communication Skills		8
Liberal Studies		16
Total Credits		130-132

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 340	Elementary Matrix and Linear Algebra	3
or MATH 341	Linear Algebra	
STAT 224	Introductory Statistics for Engineers	3
Total Credits		25

### SCIENCE

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
PHYSICS 202	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
or PHYSICS 205	Modern Physics for Engineers	
PHYSICS 322	Electromagnetic Fields	3
COMP SCI 310	Problem Solving Using Computers	3
or E P 271	Engineering Problem Solving I	
M S & E 350	Introduction to Materials Science	3
or M S & E 351	Materials Science—Structure and Property Relations in Solids	
or CBE 440	Chemical Engineering Materials	
N E 305	Fundamentals of Nuclear Engineering	3
or PHYSICS 531	Introduction to Quantum Mechanics	
Computing Elective (select one)		3
COMP SCI 367	Introduction to Data Structures	
COMP SCI 412	Introduction to Numerical Methods ((required for students in Scientific Computing Focus Area))	
E P/E M A 471	Intermediate Problem Solving for Engineers	

E P/E M A 476	Introduction to Scientific Computing for Engineering Physics	
Total Credits		28

## ENGINEERING SCIENCE

Code	Title	Credits
E M A 201	Statics	3
PHYSICS 311	Mechanics	3
E M A 303	Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
or M E/E M A 307	Mechanics of Materials Lab	
M E 361	Thermodynamics	3
or M S & E 330	Thermodynamics of Materials	
E C E 376	Electrical and Electronic Circuits	3
or PHYSICS 321	Electric Circuits and Electronics	
M E 363	Fluid Dynamics	3
M E 364	Elementary Heat Transfer	3
or M S & E 331	Transport Phenomena in Materials	
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
Total Credits		25

## FOCUS AREA

### Research and Development/Senior Thesis Expectations for Research Projects

Completion of the engineering physics degree program requires satisfactory completion of the E P 468 Introduction to Engineering Research, E P 469 Research Proposal in Engineering Physics, E P 568 Research Practicum in Engineering Physics I, E P 569 Research Practicum in Engineering Physics II coursework sequence, which culminates in a senior research thesis. The research topic chosen by the student and agreed upon by the advisor should be on a topic connected to the chosen Focus Area. The research conducted should be such that the student participates in the creation of new knowledge, experiences the excitement of the research process, and makes a contribution so that it would be appropriate to include the student's name on a scholarly publication if one results from the research.

### Senior Thesis

A senior thesis, completed during enrollment in E P 569 Research Practicum in Engineering Physics II is required. The senior thesis is a written document reporting on a substantial piece of work. It should be written in the style of a graduate thesis. The faculty advisor, in consultation with a research mentor, determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the engineering physics department office.

On or before the Friday of finals week of the semester in which E P 569 Research Practicum in Engineering Physics II, the senior thesis must be presented orally by the student to a committee of three professors in a publicly announced seminar. Interested faculty and students will be invited to attend.

### Research and Development

Code	Title	Credits
<i>Research and Development</i>		8
E P 468	Introduction to Engineering Research	

E P 469	Research Proposal in Engineering Physics	
E P 568	Research Practicum in Engineering Physics I	
E P 569	Research Practicum in Engineering Physics II	

### Focus Area Electives Nanoengineering

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>Required:</i>		
PHYSICS 551	Solid State Physics	3
E P/E M A 615	Micro- and Nanoscale Mechanics	3
M S & E 553	Nanomaterials & Nanotechnology	3
<i>At Least One of:</i>		
E M A 506	Advanced Mechanics of Materials I	3
E M A 622	Mechanics of Continua	3
E M A 519	Fracture Mechanics	3
<i>At Least One of:</i>		
M S & E 448	Crystallography and X-Ray Diffraction	3
E M A 611	Advanced Mechanical Testing of Materials	3
M E 601	Special Topics in Mechanical Engineering (Micro & Nano Fabrication)	1-3
N E 602	Special Topics in Reactor Engineering (Vacuum Technology Lab)	3
PHYSICS 623	Electronic Aids to Measurement	4
PHYSICS 625	Applied Optics	4
M S & E 748	Structural Analysis of Materials	3
<i>Open Electives:</i>		
M S & E 333	Microprocessing of Materials	3
E C E 335	Microelectronic Devices	3
M S & E 434	Introduction to Thin-Film Deposition Processes	3
M S & E 441	Deformation of Solids	3
E C E 445	Semiconductor Physics and Devices	3
M S & E 451	Introduction to Ceramic Materials	3
E M A/M S & E 541	Heterogeneous and Multiphase Materials	3
CBE/E C E/ M S & E 544	Processing of Electronic Materials	3
M S & E 560	Fundamentals of Atomistic Modeling	3
M S & E 570	Properties of Solid Surfaces	3
CHEM 630	Selected Topics in Analytical Chemistry	1-3
M S & E 756	Structure and Properties of Advanced Electronic Materials	3

**Plasma Science and Engineering**

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>Required:</i>		
N E/E C E/ PHYSICS 525	Introduction to Plasmas	3
<i>At Least One of:</i>		
N E/E C E/ PHYSICS 527	Plasma Confinement and Heating	3
N E/E C E 528	Plasma Processing and Technology	3
<i>At Least One of:</i>		
N E 526	Laboratory Course in Plasmas	3
<i>Open Electives:</i>		
N E 408	Ionizing Radiation	3
N E 536	Feasibility St of Power from Controlled Thermonuclear Fusion	3
Any plasma-related special topics course in NE		
PHYSICS 415	Thermal Physics	3
PHYSICS 625	Applied Optics	4
N E/E C E/ PHYSICS 724	Waves and Instabilities in Plasmas	3
N E/E C E/ PHYSICS 725	Plasma Kinetic Theory and Radiation Processes	3
N E/E C E/ PHYSICS 726	Plasma Magnetohydrodynamics	3

**Scientific Computing**

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>At Least One of:</i>		
N E/MED PHYS 506	Monte Carlo Radiation Transport	3
M E 573	Computational Fluid Dynamics	3
E M A 605	Introduction to Finite Elements	3
E C E 742	Computational Methods in Electromagnetics	3
<i>At Least One of:</i>		
Students must take at least two credits of laboratory experience in the Physical or Biological Sciences		
<i>Open Electives:</i>		
E P/E M A 476	Introduction to Scientific Computing for Engineering Physics	3
COMP SCI/ MATH 513	Numerical Linear Algebra	3
COMP SCI/ MATH 514	Numerical Analysis	3
Any scientific-computing-related special topics course in NE		
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	3
COMP SCI 577	Introduction to Algorithms	4
COMP SCI/ MATH 714	Methods of Computational Mathematics I	3
COMP SCI/ MATH 715	Methods of Computational Mathematics II	3

M S & E 560	Fundamentals of Atomistic Modeling	3
M E/COMP SCI/ E C E/E M A/E P 759	High Performance Computing for Applications in Engineering	3

**TECHNICAL ELECTIVE**

Select 6 credits at a level that requires two semesters of calculus or two semesters of physics as a prerequisite.

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
E P D 397	Technical Communication	3
Total Credits		8

**LIBERAL STUDIES**

Code	Title	Credits
Complete Requirements (p. 200) <sup>1</sup>		

- <sup>1</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:
1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
  2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
  3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

**TOTAL CREDITS: 130–132**

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations.

**LEARNING OUTCOMES**

- An ability to apply knowledge of basic mathematics, science and engineering.
- An ability to use advanced mathematical and computational techniques to analyze, model, and design physical systems consisting of solid and fluid components under steady state and transient conditions.
- An ability to design a system, component or process to meet desired needs.
- An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to function on multi#disciplinary teams.
- Knowledge of professional and ethical standards.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- A recognition of the need for, and ability to engage in life-long learning.
- A knowledge of contemporary issues.

Liberal Studies Elective	3
	16
	17

Total Credits 130-131

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Henderson (chair)  
 T. Allen  
 Blanchard  
 Bonazza  
 Crone  
 Drugan  
 Fonck  
 Hegna  
 Kammer  
 Lakes  
 Smith (also Mathematics)  
 Sovinec  
 Waleffe (also Mathematics)  
 Wilson

### ASSOCIATE PROFESSORS

M. Allen  
 Witt

### ASSISTANT PROFESSORS

Couet  
 Notbohm  
 Scarlat  
 Schmitz

### AFFILIATE FACULTY

See department website for list.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
CHEM 109	5 E M A 201	3
MATH 221	5 MATH 222	4
Communications A	3 PHYSICS 202	5
INTEREGR 110	1 Liberal Studies Elective	3
INTEREGR 170	2	
	16	15

#### Second Year

Fall	Credits Spring	Credits
MATH 319	3 MATH 234	4
PHYSICS 241 or 205	3 PHYSICS 322, M S E 351, or CBE 440	3
PHYSICS 311	3 M S & E 350, 351, or CBE 440	3
COMP SCI 310 or E P 271	3 E M A 303	3
E P D 275 or COM ARTS 105	2 E M A/M E 307	1
STAT 224	3 Liberal Studies Elective	3
	17	17

#### Third Year

Fall	Credits Spring	Credits
E P 468	1 E P 469	1
N E 305 or PHYSICS 531	3 Technical Elective	3
EP Focus Area Course	3 E P D 397	3
MATH 321	3 E C E 376 or PHYSICS 321	3-4
M E 361 or M S E 330	3 MATH 340 or 341	3
Computing Elective	3 Liberal Studies Elective	3
	16	16-17

#### Fourth Year

Fall	Credits Spring	Credits
E P 568	3 E P 569	3
M E 363	3 EP Focus Area Course	2
EP Focus Area Course	3 M E 364 or M S E 331	3
EP Focus Area Course	3 Technical Elective	3
Liberal Studies Elective	4 EP Focus Area Course	3

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Fluid Mechanics and Heat Transfer Laboratories  
 Instructional Computing Labs (in Computer Aided Engineering)  
 Nanomechanics Laboratory  
 Nuclear Instrumentation Laboratory  
 Plasma Physics Laboratories  
 Superconductivity and Cryogenics Laboratories

## ENGINEERING FOR ENERGY SUSTAINABILITY, CERTIFICATE

Equity and sustainability of energy resources in the face of increasing global population and economic development are key issues at the center of the public discourse today. The objective of this certificate program is to offer undergraduate students a suite of courses addressing energy sustainability. The courses span across the engineering curriculum, with firm roots in real-world design and engineering practices.

Students enrolled as degree-seeking undergraduates with a minimum GPA of 2.5 and a plan of study to fulfill the certificate requirements may enroll in the program. Applications may be submitted at any time, but students are encouraged to apply early in their undergraduate careers in order to ensure successful completion of the program; however, students may take courses that fulfill certificate requirements before submitting an application.

### COURSE AUTHORIZATION

Some courses may require additional approval to appear in students' DARS reports as having fulfilled part of the certificate requirements. Students who are taking a course for the capstone requirement must fill out this DARS Authorization Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_bpFYQNVcKo4UogI](https://uwmadison.co1.qualtrics.com/jfe/form/SV_bpFYQNVcKo4UogI)) to receive the proper number of sustainability credits. For more information on obtaining credits for capstone courses, see Capstone Course Guidelines (<http://energy.wisc.edu/education/energy-certificate/capstone-guidelines>).

In addition, students who wish to receive sustainability credits for courses that are not currently on the preapproved list may also complete the DARS Authorization Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_bpFYQNVcKo4UogI](https://uwmadison.co1.qualtrics.com/jfe/form/SV_bpFYQNVcKo4UogI)) and explain why the course should receive sustainability credits.

Once a form is filled out, it will be sent to a body of Energy Institute faculty members for approval. To expedite the approval process, students should submit their DARS Authorization Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_bpFYQNVcKo4UogI](https://uwmadison.co1.qualtrics.com/jfe/form/SV_bpFYQNVcKo4UogI)) before or near the beginning of the semester in which they plan to take the course.

### FINAL COURSE PLANS

During the term when they expect to meet the certificate requirements, students must fill out and submit this course plan (<https://energy.wisc.edu/sites/default/files/2016-12/CEES-Course-Plan.pdf>) to the supervising faculty member of their capstone courses in their major

department. The faculty member will review the course plan and make the recommendation for a certificate to the respective department's professional advising staff.

The following faculty members have been designated as points of contact for each department:

Richard J. Straub ([http://bse.wisc.edu/Richard\\_Straub.htm](http://bse.wisc.edu/Richard_Straub.htm)), Biological Systems Engineering  
 Robert G. Radwin ([http://www.engr.wisc.edu/bme/faculty/radwin\\_robert.html](http://www.engr.wisc.edu/bme/faculty/radwin_robert.html)), Biomedical Engineering  
 Thatcher Root (<https://energy.wisc.edu/about/energy-experts/thatcher-root>), Chemical and Biological Engineering  
 Dan Noguera ([http://www.engr.wisc.edu/cee/faculty/noguera\\_daniel.html](http://www.engr.wisc.edu/cee/faculty/noguera_daniel.html)), Civil and Environmental Engineering  
 Giri Venkataramanan ([http://www.engr.wisc.edu/ece/faculty/venkataramanan\\_giri.html](http://www.engr.wisc.edu/ece/faculty/venkataramanan_giri.html)), Electrical and Computer Engineering  
 Jim Tinjum (<http://gle.wisc.edu/james-tinjum>), Geological Engineering  
 Vicki Bier ([http://www.engr.wisc.edu/ie/faculty/bier\\_vicki.html](http://www.engr.wisc.edu/ie/faculty/bier_vicki.html)), Industrial and Systems Engineering  
 Dane Morgan ([http://www.engr.wisc.edu/mse/faculty/morgan\\_dane.html](http://www.engr.wisc.edu/mse/faculty/morgan_dane.html)), Materials Science and Engineering  
 Roxann L. Engelstad ([http://www.engr.wisc.edu/me/faculty/engelstad\\_roxann.html](http://www.engr.wisc.edu/me/faculty/engelstad_roxann.html)), Mechanical Engineering  
 Michael L. Corradini ([http://www.engr.wisc.edu/ep/faculty/corradini\\_michael.html](http://www.engr.wisc.edu/ep/faculty/corradini_michael.html)), Nuclear Engineering and Engineering Physics

When the student and faculty member have filled out and signed the Declaration of Intent and Study Plan (<http://www.energy.wisc.edu/sites/default/files/education/dec-of-intent-1.pdf>), the student must hand them in to Room 905 Engineering Research Building, 1500 Engineering Drive. Once there, the student also needs to fill out and hand in a College of Engineering Certificate Declaration Form, copies of which are located in the drop box next to the Energy Institute office.

## REQUIREMENTS

A student interested in completing the certificate program must contact a designated faculty member in his or her major department to apply. The student and faculty member must fill out the Declaration of Intent and Study Plan (<http://www.energy.wisc.edu/sites/default/files/education/dec-of-intent-1.pdf>) to enter the certificate program.

- Required: Declaration of Intent and Study Plan (<http://www.energy.wisc.edu/sites/default/files/education/dec-of-intent-1.pdf>)
- Sustainability Courses:  
 Students must select the 16 "sustainability credits" from a suite of available courses divided into the following categories:
  - Science/Liberal Studies, 3–6 cr
  - Engineering, 3–6 cr
  - Capstone, 3–6 cr
  - Seminar, 1 cr

Students are required to take a minimum of 3 sustainability credits and a maximum of 6 sustainability credits from these three categories: science/liberal Studies, engineering, and capstone. In addition, students must fulfill a 1-credit seminar requirement. Currently, this seminar requirement is fulfilled through the course CBE 555 Seminar-Chemical Engineering Connections, which is open to all engineering majors. In the near future, a crosslisted course will be developed for this purpose.



Students may also take INTEREGR 601 Topics in Interdisciplinary Engineering for the seminar requirement.

Not all courses have the same number of sustainability credits as academic credits; some courses have fewer sustainability credits depending on how closely related they are to energy and sustainability. Students should review the list of preapproved courses and the sustainability credits associated with each course while filling out their study plan.

## PREAPPROVED COURSES

### Liberal Studies and Science

Code	Title	Credits
ENVIR ST 112	Environmental Studies: The Social Perspective	3
ENVIR ST 113	Environmental Studies: The Humanistic Perspective	3
ENVIR ST/GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
ENVIR ST/A A E 244	The Environment and the Global Economy	3
ENVIR ST 250	Introduction to Sustainability Science	3
ENVIR ST/GEOG 339	Environmental Conservation	4
ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
ENVIR ST/ GEOSCI 411	Energy Resources	3
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4

### Engineering

Code	Title	Credits
BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
BSE 461	Food and Bioprocessing Operations	3
CBE 250	Process Synthesis	3
CBE 310	Chemical Process Thermodynamics	3
CBE 311	Thermodynamics of Mixtures	3
CBE 326	Momentum and Heat Transfer Operations	3
CBE 430	Chemical Kinetics and Reactor Design	3
CBE 450	Process Design	3
CBE 562	Special Topics in Chemical Engineering	1-3
CBE/M E 567	Solar Energy Technology	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 370	Transportation Engineering	3
E C E 355	Electromechanical Energy Conversion	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3

E C E 412	Power Electronic Circuits	3
G L E 401	Special Topics in Geological Engineering	1-4
or CIV ENGR 639	Special Topics in Geotechnical Engineering	
E P D 660	Core Competencies of Sustainability	3
M E 361	Thermodynamics	3
M E 370	Energy Systems Laboratory	3
M E 466	Air Pollution Effects, Measurements and Control	3
or CIV ENGR 423	Air Pollution Effects, Measurement and Control	
M S & E 330	Thermodynamics of Materials	4
M S & E 331	Transport Phenomena in Materials	3
M S & E 401	Special Topics in Materials Science and Engineering	1-3
N E 571	Economic and Environmental Aspects of Nuclear Energy	3

### Capstone

Courses numbered 489, 491, 599, 601, and 699 (not exhaustive) are examples of courses that may count towards this requirement.

### Seminar

Code	Title	Credits
E P 602	Special Topics in Engineering Physics	1-3
CBE 555	Seminar-Chemical Engineering Connections	1

## PEOPLE

### PROFESSORS

Henderson (chair)  
T. Allen  
Blanchard  
Bonazza  
Crone  
Drugan  
Fonck  
Hegna  
Kammer  
Lakes  
Smith (also Mathematics)  
Sovinec  
Waleffe (also Mathematics)  
Wilson

### ASSOCIATE PROFESSORS

M. Allen  
Witt

### ASSISTANT PROFESSORS

Couet  
Notbohm  
Scarlat  
Schmitz

## AFFILIATE FACULTY

See department website for list.

# NUCLEAR ENGINEERING MATERIALS, CERTIFICATE

The goal of this certificate is to combine a comprehensive set of course curricula that will provide students with an understanding of the challenges and remedial measures associated with materials in nuclear energy systems. It includes courses in radiation damage, nuclear fuel performance, corrosion, and joining/welding. A laboratory course will provide hands-on experimental analysis in the areas of corrosion, welding, radiation damage, and non-destructive evaluation.

Students learn the challenges and remedial measures associated with materials in nuclear energy system and conduct experimental analysis in corrosion, welding, radiation damage, and nondestructive evaluation.

## REQUIREMENTS

Code	Title	Credits
<b>Required courses (13 credits)</b>		
N E/M S & E 423	Nuclear Engineering Materials <sup>1</sup>	3
N E 424	Nuclear Materials Laboratory	1
N E 541	Radiation Damage in Metals <sup>1</sup>	3
M S & E/N E 433	Principles of Corrosion	3
M S & E/M E 435	Joining of Materials: Structural, Electronic, Bio and Nano Materials	3
or M S & E/ M E 462	Welding Metallurgy	
<b>Elective courses (minimum 3 cr.)</b>		
CIV ENGR 445	Steel Structures I	3
CIV ENGR 447	Concrete Structures I	3
M S & E 330	Thermodynamics of Materials	4
M S & E 352	Materials Science-Transformation of Solids	3
M S & E 463	Materials for Elevated Temperature Service	3
M S & E 560	Fundamentals of Atomistic Modeling	3
M S & E 570	Properties of Solid Surfaces	3

<sup>1</sup> Because M S & E 350 Introduction to Materials Science or M S & E 351 Materials Science-Structure and Property Relations in Solids are prerequisites for N E/M S & E 423 Nuclear Engineering Materials and N E 541 Radiation Damage in Metals, students are expected to take one of the two of these courses as prerequisites for the certificate.

# NUCLEAR ENGINEERING, B.S.

The Department of Engineering Physics offers the B.S. degree in nuclear engineering and M.S. and Ph.D. degrees in nuclear engineering and engineering physics.

Nuclear engineering is defined as the application of nuclear and radiation processes in technology. An important application is the generation of electricity using nuclear reactors. Another important application is in medicine, where radiation and radioisotopes are used to diagnose and treat illness. Nuclear engineering offers students an important opportunity to help meet the energy needs of our society and to contribute to the improvement of health through medical applications. Further, because the nuclear engineering curriculum is very rich in engineering physics, graduates are prepared to work in a number of technical activities outside the nuclear engineering field.

Nuclear energy, both from fission and fusion, offers a promising approach to meeting the nation's energy needs—an approach that may preserve jobs, raise the standard of living of Americans, and alleviate the depletion of natural resources including natural gas, petroleum, and coal. Even more important, nuclear energy offers the only practical, environmentally benign approach to generating electricity on a large scale because it releases no harmful SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub>, or particulate matter into the atmosphere. Nuclear energy has played, and continues to play, an important role in space exploration. Nuclear engineering has enabled the use of isotopic power supplies in deep space probes like the Cassini mission, and may eventually be used to design fission or fusion-based systems for more demanding missions.

Since the discovery of fission many years ago, electricity is being produced commercially in a several hundred billion-dollar industry. Applications of radioactive tracers have been made in medicine, science, and industry. Radiation from particle accelerators and materials made radioactive in nuclear reactors are used worldwide to treat cancer and other diseases, to provide power for satellite instrumentation, to preserve food, to sterilize medical supplies, to search for faults in welds and piping, and to polymerize chemicals. Low energy plasmas are used in the manufacture of microelectronics components and to improve the surface characteristics of materials. High energy plasmas offer the possibility of a new energy source using thermonuclear fusion.

Because the breadth and rate of change in this field requires that the nuclear engineer have a broad educational background, the curriculum consists of physics, math, materials science, electronics, thermodynamics, heat transfer, computers, courses in the humanities and social science areas, and numerous elective courses. Courses of a specific nuclear engineering content come primarily in the third and fourth years.

The curriculum prepares students for careers in the nuclear industry and government—with electric utility companies, in regulatory positions with the federal or state governments, or for major contractors on the design and testing of improved reactors for central station power generation or for propulsion of naval vessels.

The curriculum also prepares the graduate for work in many areas where a broad technical background is more important than specialization in a specific field. Thus, the graduate is also prepared to work in any area where a broad engineering background is helpful, such as management, technical sales, or law. The curriculum gives students excellent preparation for graduate study in the fission and fusion areas, medical and health physics, applied superconductivity, particle accelerator technology, and other areas of engineering science in addition to study in areas such as materials science, physics, mathematics, and medicine.

## OBJECTIVES OF THE NUCLEAR ENGINEERING PROGRAM

- educate students in the fundamental subjects necessary for a career in nuclear engineering, and prepare students for advanced education in it and related fields;
- educate students in the basics of instrumentation, design of laboratory techniques, measurement, and data acquisition, interpretation and analysis;
- educate students in the methodology of design;
- provide and facilitate teamwork and multidisciplinary experiences throughout the curriculum;
- foster the development of effective oral and written communication skills;
- expose students to environmental, ethical and contemporary issues.

### HOW TO GET IN

#### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

#### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

#### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college.

Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

#### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

##### Requirements Detail

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

#### NUCLEAR ENGINEERING CURRICULUM

The nuclear engineering curriculum is divided into two options, one emphasizing nuclear power and one emphasizing medical and other nonpower applications of radiation sciences. The power option is more appropriate for students seeking careers in the nuclear power industry, while the radiation sciences option is better suited for students interested in medical and non-power applications.

#### POWER OPTION CURRICULUM

The following curriculum applies to students who entered the program after fall 2014.

**SUMMARY OF REQUIREMENTS**

Code	Title	Credits
	Mathematics and Statistics	22
	Science	13
	Engineering Science	31
	Nuclear Engineering Core	24
	Nuclear Engineering Electives	12
	Introduction to Engineering	3
	Communication Skills	8
	Liberal Studies	16
	<b>Total Credits</b>	<b>129</b>

**MATHEMATICS AND STATISTICS**

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
	or MATH 217 Calculus with Algebra and Trigonometry II	
	or MATH 275 Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
	or MATH 276 Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 224	Introductory Statistics for Engineers	3
	or STAT 324 Introductory Applied Statistics for Engineers	
	<b>Total Credits</b>	<b>22</b>

**SCIENCE**

Code	Title	Credits
CHEM 109	Advanced General Chemistry (or CHEM 103 & 104)	5
PHYSICS 202	General Physics	5
	or PHYSICS 208 General Physics	
PHYSICS 241	Introduction to Modern Physics	3
	or PHYSICS 205 Modern Physics for Engineers	
	<b>Total Credits</b>	<b>13</b>

**ENGINEERING SCIENCE**

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
	or M E 240 Dynamics	
E M A 303	Mechanics of Materials	3
	or M E 306 Mechanics of Materials	
E M A/M E 307	Mechanics of Materials Lab	1
	or M E/E M A 307 Mechanics of Materials Lab	
E P 271	Engineering Problem Solving I	3
	or COMP SCI 310 Problem Solving Using Computers	
M S & E 350	Introduction to Materials Science	3
M E 231	Introductory Engineering Graphics	2
M E 361	Thermodynamics (or M E 363 and M E 364)	3

	or PHYSICS 322 Electromagnetic Fields	
CBE/B M E 320	Introductory Transport Phenomena	4
E C E 376	Electrical and Electronic Circuits	3
	or PHYSICS 321 Electric Circuits and Electronics	
	Computing Elective	3
	<b>Total Credits</b>	<b>31</b>

**NUCLEAR ENGINEERING CORE**

Code	Title	Credits
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3
N E 408	Ionizing Radiation	3
N E 411	Nuclear Reactor Engineering	3
N E 412	Nuclear Reactor Design	5
N E 427	Nuclear Instrumentation Laboratory	2
N E 428	Nuclear Reactor Laboratory	2
N E 571	Economic and Environmental Aspects of Nuclear Energy	3
	<b>Total Credits</b>	<b>24</b>

**NUCLEAR ENGINEERING ELECTIVES**

Code	Title	Credits
	<i>Technical Electives</i>	3
	Technical Electives (not to be confused with Nuclear Engineering Electives or Medical Physics Electives) must be chosen from courses offered by the College of Engineering or by the departments of Physics, Mathematics, Computer Sciences, or Chemistry.	
	<i>Nuclear Engineering Electives</i>	9
	Select credits in the power track	
	<b>Total Credits</b>	<b>12</b>

**Nuclear Engineering Electives Course List <sup>1</sup>**

Code	Title	Credits
N E 234	Principles and Practice of Nuclear Reactor Operations	4
N E 406	Nuclear Reactor Analysis	3
N E/M S & E 423	Nuclear Engineering Materials	3
N E 424	Nuclear Materials Laboratory	1
N E/CIV ENGR/ I SY E 460	Uncertainty Analysis for Engineers	3
N E/MED PHYS 506	Monte Carlo Radiation Transport	3
M E/N E 520	Two-Phase Flow and Heat Transfer	3
N E/E C E/ PHYSICS 525	Introduction to Plasmas	3
N E 536	Feasibility St of Power from Controlled Thermonuclear Fusion	3
N E 541	Radiation Damage in Metals	3
N E 550	Advanced Nuclear Power Engineering	3
N E 555	Nuclear Reactor Dynamics	3
N E/M E 565	Power Plant Technology	3
N E/MED PHYS 569	Health Physics and Biological Effects	3-4

N E/ I SY E 574	Methods for Probabilistic Risk Analysis of Nuclear Power Plants	3
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Students are encouraged to access the online NE future course offering grid ([https://www.engr.wisc.edu/app/uploads/2016/01/NE\\_Future\\_Courses\\_07.22.16.pdf](https://www.engr.wisc.edu/app/uploads/2016/01/NE_Future_Courses_07.22.16.pdf)) to plan their future course schedules and to confirm the offering of a course in the table.

<sup>1</sup> Courses meeting the Nuclear Engineering Electives requirement are all NE courses numbered above 200 that are not part of the required curriculum. No more than 3 credits of N E 699 Advanced Independent Study, may be used to meet this requirement. (Refer to page 9 in *NE Curriculum Handbook*).

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
Total Credits		3

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
E P D 397	Technical Communication	3
Total Credits		8

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 200) <sup>1</sup>		16
Total Credits		16

<sup>1</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<https://www.engr.wisc.edu/academics/student-services/academic-advising/undergraduate-engineering-students/rules-and-regulations>).

## RADIATION SCIENCES OPTION CURRICULUM

The following curriculum applies to students who entered the program after fall 2014. Students selecting the radiation sciences option must submit an option declaration form to the department office.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
Mathematics and Statistics		22
Science		16
Engineering Science		27
Nuclear Engineering Core Requirement		24
Medical Physics Electives		9
Introduction to Engineering		3
Communication Skills		8
Liberal Studies		16
Technical Elective		3
Free Elective		1
Total Credits		129

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 224	Introductory Statistics for Engineers	3
or STAT 324	Introductory Applied Statistics for Engineers	
Total Credits		22

## SCIENCE

Code	Title	Credits
CHEM 109	Advanced General Chemistry ((or CHEM 103 & 104))	5
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
PHYSICS 241	Introduction to Modern Physics	3
or PHYSICS 205	Modern Physics for Engineers	
PHYSICS 322	Electromagnetic Fields	3
Total Credits		16

## ENGINEERING SCIENCE

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	

E M A/M E 307 or M E/E M A 307	Mechanics of Materials Lab Mechanics of Materials Lab	1
E P 271 or COMP SCI 310	Engineering Problem Solving I Problem Solving Using Computers	3
M E 231	Introductory Engineering Graphics	2
M S & E 350	Introduction to Materials Science	3
M E 361	Thermodynamics	3
E C E 376 or PHYSICS 321	Electrical and Electronic Circuits Electric Circuits and Electronics	3
Computing elective		3
Total Credits		27

## NUCLEAR ENGINEERING CORE REQUIREMENT

Code	Title	Credits
<b>Radiation Sciences Core</b>		
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3
N E 408	Ionizing Radiation	3
N E 412	Nuclear Reactor Design	5
N E 427	Nuclear Instrumentation Laboratory	2
N E 428	Nuclear Reactor Laboratory	2
MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiological Physics and Dosimetry	3
N E 571	Economic and Environmental Aspects of Nuclear Energy	3
Total Credits		24

## MEDICAL PHYSICS ELECTIVES

Code	Title	Credits
Select nine credits <sup>1</sup>		9
MED PHYS/ H ONCOL 410	Radiobiology	
MED PHYS/ PHYSICS 563	Radionuclides in Medicine and Biology	
MED PHYS/ B M E 566	Physics of Radiotherapy	
MED PHYS/ B M E 567	The Physics of Diagnostic Radiology	
N E/ MED PHYS 569	Health Physics and Biological Effects (Recommended)	
MED PHYS/ B M E 573	Medical Image Science: Mathematical and Conceptual Foundations	
MED PHYS/ B M E 578	Non-Ionizing Diagnostic Imaging	
Total Credits		9

<sup>1</sup> Courses meeting the Medical Physics Electives requirement are MED PHYS courses numbered 400 and above and selected Physics courses at or above the 400 level. No more than 3 credits of N E 699 Advanced Independent Study, may be used to meet this requirement. (Refer to page 9 in *NE Curriculum Handbook*).

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
INTEREGR 170	Design Practicum	2
Total Credits		3

## TECHNICAL ELECTIVES

Code	Title	Credits
Technical Electives (not to be confused with Nuclear Engineering Electives or Medical Physics Electives) must be chosen from courses offered by the College of Engineering, or by the departments of Physics, Mathematics, Computer Science, or Chemistry.		3
Total Credits		3

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100 or LSC 100 or COM ARTS 100 or ESL 118	Introduction to College Composition Science and Storytelling Introduction to Speech Composition Academic Writing II	3
E P D 275	Technical Presentations	2
E P D 397	Technical Communication	3
Total Credits		8

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 200) <sup>1</sup>		16
Total Credits		16

- <sup>1</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:
1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
  2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
  3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. *Note:* Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<https://www.engr.wisc.edu/academics/student-services/academic-advising/undergraduate-engineering-students/rules-and-regulations>).

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn an Honor in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## NUCLEAR ENGINEERING SCHOLARS AND DISTINGUISHED SCHOLARS PROGRAM

Students who achieve at least a 3.0 GPA in their first semester, and maintain it throughout their career, may be designated Scholars. They also may be exempted from some formal requirements for the Bachelor of Science in Nuclear Engineering degree other than total credits. However, they must meet certain restrictions on the distribution of courses chosen. Students who achieve at least a 3.70 grade point average (GPA) for the first semester of the freshman year or a 3.5 GPA for the first four semesters, may be designated Distinguished Scholars. These students, with the approval of their advisor, may be exempted from most formal requirements for the Bachelor of Science in Nuclear Engineering degree other than the total credit hours, so long as they maintain a satisfactory performance record and the main thrust of their work is along the lines of nuclear engineering education. The general education and liberal studies requirements must be met by Scholars and Distinguished Scholars. Students transferring into the nuclear engineering department may be eligible to qualify for either of these programs as late as the beginning of the seventh semester.

## EARLY ACCEPTANCE INTO THE GRADUATE PROGRAM IN MEDICAL PHYSICS

The University of Wisconsin-Madison has one of the top graduate programs in Medical Physics. It is part of the Medical School. Graduates of the program often are responsible for radiation treatment or imaging usually in a hospital, or they design the equipment used in those procedures. Since this program does not have an associated undergraduate program, our degrees are excellent preparation for his program.

Qualified students in our Nuclear Engineering undergraduate program are given early consideration for admission into Medical Physics. If you would like to be considered for admission into Medical Physics. If you would like to be considered for this honor, you should provide the following information to the Chair of the Engineering Physics Department before the end of your Junior year.

1. An official or unofficial transcript from your undergraduate program
2. A list of courses you plan to take to complete your BS degree (ordered by semester)
3. A list of courses you would plan to take to complete your MS in Medical Physics
4. A cover letter describing your interest in the program

At the same time (spring of your junior year) apply for admission to the M.S. Medical Physics Graduate Program (deadline is June 25) with a start date that coincides with the fall after completion of your BS in Nuclear Engineering.

You should contact the Medical Physics department for more details of their program if you have additional questions.

## LEARNING OUTCOMES

- an ability to identify, formulate, and solve engineering problems. This includes:
  1. an ability to apply knowledge of basic mathematics, science and engineering.
  2. an ability to use advanced mathematical and computational techniques to analyze, model, and design physical systems consisting of solid and fluid components under steady state and transient conditions.
  3. an ability to design a system, component or process to meet desired needs.
  4. an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to function on multi-disciplinary teams.
- knowledge of professional and ethical standards.
- an ability to communicate effectively.
- the broad education necessary to understand the impact of engineering solutions in a global and societal context.
- a recognition of the need for, and ability to engage in life-long learning.
- a knowledge of contemporary issues.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

First Year		
Fall	Credits Spring	Credits
CHEM 109 <sup>1</sup>	5 E M A 201 <sup>3</sup>	3
MATH 221	5 MATH 222	4
Communications A	3 STAT 224 or 324	3
INTEREGR 110	1 M E 231	2
INTEREGR 170 <sup>2</sup>	2 Liberal Studies Elective	3
	16	15
Second Year		
Fall	Credits Spring	Credits
MATH 234	4 MATH 320	3
PHYSICS 202	5 PHYSICS 241 or 205	3
E M A 202	3 M E 361	3
E P 271 or COMP SCI 310	3 E M A 303	3
E P D 275 or COM ARTS 105	2 E M A/M E 307	1
	Liberal Studies Elective	3
	17	16
Third Year		
Fall	Credits Spring	Credits
N E 305	3 N E 405	3

MATH 321	3 N E 408	3
M S & E 350	3 CBE/B M E 320 <sup>5</sup>	4
Technical Elective	3 Computing Elective	3
Liberal Studies Elective	4 E C E 376 or PHYSICS 321	3
	16	16

**Fourth Year**

Fall	Credits Spring	Credits
N E 411	3 N E 412	5
N E 427	2 N E 428	2
Nuclear Engineering Elective	3 N E 571	3
Nuclear Engineering Elective	3 Nuclear Engineering Elective	3
Liberal Studies Elective	3 Liberal Studies Elective	3
E P D 397	3	
	17	16

Total Credits 129

- <sup>1</sup> Students should take CHEM 109 Advanced General Chemistry, 5 cr; students with inadequate preparation in high school chemistry may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits. Three credits of Chem 103/104 may be counted towards Technical Electives credits.
- <sup>2</sup> Students who were not able to take INTEREGR 170 Design Practicum as freshmen may, with the approval of their advisor, substitute 2 credits of electives from courses offered in the College of Engineering or in the Departments of Chemistry, Computer Sciences, Mathematics, and Physics.
- <sup>3</sup> Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.
- <sup>4</sup> M E 306 Mechanics of Materials and M E/E M A 307 Mechanics of Materials Lab are acceptable substitutions for E M A 303 Mechanics of Materials and E M A/M E 307 Mechanics of Materials Lab.
- <sup>5</sup> M E 363 Fluid Dynamics and M E 364 Elementary Heat Transfer are acceptable substitutions for CBE/B M E 320 Introductory Transport Phenomena.

## RADIATION SCIENCES OPTION IN NUCLEAR ENGINEERING

### EXAMPLE FOUR YEAR PLAN

**First Year**

Fall	Credits Spring	Credits
CHEM 109 <sup>1</sup>	5 E M A 201 <sup>3</sup>	3
MATH 221	5 MATH 222	4
Communications A	3 STAT 224 or 324	3
INTEREGR 110	1 M E 231	2
INTEREGR 170 <sup>2</sup>	2 Liberal Studies Elective	3
	16	15

**Second Year**

Fall	Credits Spring	Credits
MATH 234	4 MATH 320	3
PHYSICS 202	5 PHYSICS 241 or 205	3
E M A 202	3 M E 361	3

E P 271 or COMP SCI 310	3 E M A 303	3
E P D 275 or COM ARTS 105	2 E M A/M E 307	1
	Liberal Studies Elective	3
	17	16

**Third Year**

Fall	Credits Spring	Credits
N E 305	3 N E 405	3
MATH 321	3 N E 408	3
M S & E 350	3 PHYSICS 322	3
Technical Elective <sup>5</sup>	3 Computing Elective	3
Liberal Studies Elective	4 E C E 376 or PHYSICS 321	3
	Free Elective	1
	16	16

**Fourth Year**

Fall	Credits Spring	Credits
N E 427	2 N E 412	5
MED PHYS/B M E/ H ONCOL/PHYSICS 501	3 N E 571	3
Medical Physics Elective	3 N E 428	2
Medical Physics Elective	3 Medical Physics Elective	3
Liberal Studies Elective	3 Liberal Studies Elective	3
E P D 397	3	
	17	16

Total Credits 129

- <sup>1</sup> Students should take CHEM 109 Advanced General Chemistry, 5 cr.; students with inadequate preparation in high school chemistry may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II, for a total of 9 credits. Three credits of Chem 103/104 may be counted as Technical Electives credits
- <sup>2</sup> Students who were not able to take INTEREGR 170 Design Practicum as freshmen may, with the approval of their advisor, substitute 2 credits of electives from courses offered in the College of Engineering or in the Departments of Chemistry, Computer Science, Mathematics, and Physics.
- <sup>3</sup> Students may substitute PHYSICS 201 General Physics, 5 cr., for E M A 201 Statics, 3 cr., with the approval of their advisor.
- <sup>4</sup> M E 306 Mechanics of Materials and M E/E M A 307 Mechanics of Materials Lab are acceptable substitutions for E M A 303 Mechanics of Materials and E M A/M E 307 Mechanics of Materials Lab.
- <sup>5</sup> PHYSICS 623 Electronic Aids to Measurement is recommended for students in the Radiation Sciences track.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.



## ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Henderson (chair)  
 T. Allen  
 Blanchard  
 Bonazza  
 Crone  
 Drugan  
 Fonck  
 Hegna  
 Kammer  
 Lakes  
 Smith (also Mathematics)  
 Sovinec  
 Waleffe (also Mathematics)  
 Wilson

### ASSOCIATE PROFESSORS

M. Allen  
 Witt

### ASSISTANT PROFESSORS

Couet  
 Notbohm  
 Scarlat  
 Schmitz

### AFFILIATE FACULTY

See department website for list.

## RESOURCES AND SCHOLARSHIPS

## FACILITIES

Facilities available for instruction and research include:

Nuclear Reactor Laboratory  
 Nuclear Instrumentation Laboratory  
 Fluid Mechanics and Heat Transfer Laboratories  
 Plasma Physics Laboratories  
 Superconductivity and Cryogenics Laboratories  
 Instructional Computing Labs (in Computer Aided Engineering)

## ENGINEERING PROFESSIONAL DEVELOPMENT

### DEGREES/MAJORS/CERTIFICATES

- Technical Communication, Certificate (p. 265)
- Technical Japanese Studies for Undergraduates, Certificate (p. 268)

## TECHNICAL COMMUNICATION, CERTIFICATE

The Technical Communication Certificate (TCC) has established itself as a program that meets industry and government agencies' demands for students with skills as communicators and for communication specialists. Because employers value well-developed communication skills, TCC courses will enhance success in co-op/intern positions and post-graduation careers. TCC graduates overwhelmingly confirm not only that the certificate gave them an edge over other candidates during the recruitment process, but also that the communication knowledge, skills, and attitudes they acquired while in the program helped them succeed in their jobs and helped prepare them for the diverse communication and management tasks in today's multifunctional team environments.

The Technical Communication Certificate, offered by the Department of Engineering Professional Development (EPD), complements all undergraduate degrees, but is especially designed to fit in well with an engineering degree. TCC students gain experience in career-applicable skills by

- Receiving education in principles and processes for communicating about technical subjects (including problem solving methods, audience analysis, rhetorical analysis, conventions of format, and usability testing).
- Gaining education in the fundamentals of written, oral, and visual communication (including organization, structure, style, mechanics, format, and delivery).
- Learning effective interpersonal communication and management skills (including teamwork, interviewing, leading and facilitating groups, project management, and international communication).
- Gaining opportunities to research and think analytically about contemporary issues and to consider ethical issues.
- Using current technology to encourage effective communication in a variety of environments (including use of the web, distance communication, electronic publishing, group software, and layout and presentation software).

While the certificate is designed especially for engineering students, students from other fields sometimes seek out the program to enhance their career options. Students who complete the certificate will have the notation "Technical Communication Certificate" added to their transcripts.

Aside from the relevant courses offered in the TCC, students especially value the close contact with faculty through advising and development of a TC Certificate Portfolio. Students in the program often take on leadership roles in other college or campus student organizations and

projects, further developing their communication, team, and management skills.

## HOW TO GET IN

Undergraduates who would like to enroll in the Technical Communication Certificate may download the TCC Application form (PDF) (<http://tc.engr.wisc.edu/wp-uploads/2012/05/TCCApplication2016.pdf>) or pick one up from Suite 2107 in the Mechanical Engineering Building. Please include a current transcript or DARS report with the application form. Graduate students and non-degree-seeking students cannot enroll in the TCC.

### PREREQUISITES FOR ADMISSION TO THE TCC PROGRAM

- A grade of at least B in Communication A or equivalent course or AP English credits (score of at least 4 out of 5).
- Four courses (12-credit minimum) in science and/or engineering, including at least one intermediate-level (minimum 200-level) course.
- Three courses (9-credit minimum) in humanities, social sciences, and/or foreign language.
- Overall GPA of at least 2.5.

Applications are accepted throughout the semester, though students are encouraged to submit applications as early as possible so they have ample time to plan their coursework. Please drop completed applications off at Suite 2107, Mechanical Engineering, or email completed pdf applications to Dr. Laura Grossenbacher at [lrgrossenbac@wisc.edu](mailto:lrgrossenbac@wisc.edu). The program will notify all new admissions via email.

## REQUIREMENTS

To graduate with the certificate in technical communication, students must complete at least 24 credits, with a minimum of 9 credits in technical proficiency courses and a minimum of 15 credits in both technical and non-technical communication courses.

In addition to course requirements, students must achieve at least a B in the required Technical Communication (E P D 397) and the Technical Communications Internship (E P D 398). All students must complete the program within five years from their application date. Students must meet regularly with their assigned certificate advisor and must compile and submit a portfolio of their work for the internship course. Students cannot count courses completed on a pass/fail basis toward the certificate.

Substitution of courses substantively equivalent to those listed will be considered by the Technical Communication Curriculum Committee. Students must submit requests for substitution with supporting material before beginning the course.

### PREREQUISITES

Code	Title	Credits
	A grade of at least B in Communication A or equivalent course or AP English credits (score of at least 4 or 5)	
	Select four courses (12-credit minimum) in science and/or engineering, including at least one intermediate-level (minimum 200-level) course	
	Select three courses (9-credit minimum) in liberal studies including a foreign language	

Overall GPA of at least 2.5

## TECHNICAL PROFICIENCY

Code	Title	Credits
Select a minimum of one course each from three areas: <sup>1</sup>		9
Mathematics/Statistics		
Computer Science		
Management/Economics/Business		
Total Credits		9

### Mathematics/Statistics

Code	Title	Credits
Mathematics or Statistics courses (200-level or above)		
COM ARTS 361	Introduction to Quantitative Research in Communication	3
GEN BUS 303	Business Statistics	3
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4

### Computer Science

Code	Title	Credits
CBE 255	Introduction to Chemical Process Modeling	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 310	Problem Solving Using Computers	3
COMP SCI/ INFO SYS 371	Technology of Computer-Based Business Systems	3
LSC 532	Web Design for the Sciences	3

### Management/Economics/Business

Code	Title	Credits
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
CIV ENGR/BSE 491	Legal Aspects of Engineering	3
CIV ENGR 492	Integrated Project Estimating and Scheduling	3
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3
CIV ENGR 498	Construction Project Management	3
CIV ENGR 570	Environmental Impact of Transportation Systems	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
ECON 467	International Industrial Organizations	3-4
ECON 590	Tutorial in Research Project Design	3
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
GEN BUS 365	Contemporary Topics	1-3
GEN BUS/ ENVIR ST 601	Systems Thinking and Sustainable Businesses	3

INTL BUS 200	International Business	3	M E 231	Introductory Engineering Graphics	2
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	I SY E 515	Engineering Management of Continuous Process Improvement	3
I SY E 313	Engineering Economic Analysis	3	BSE 375	Special Topics	1-4
I SY E/PSYCH 349	Introduction to Human Factors	3	CBE 324	Transport Phenomena Lab	3
I SY E 476	Industrial Engineering Projects	3	CBE 424	Operations and Process Laboratory	5
I SY E 515	Engineering Management of Continuous Process Improvement	3	COM ARTS 260	Communication and Human Behavior	3
I SY E 575	Introduction to Quality Engineering	3	COM ARTS 262	Theory and Practice of Argumentation and Debate	3
I SY E/PSYCH 652	Sociotechnical Systems	3	COM ARTS 263	Speech Composition	3
MARKETNG 300	Marketing Management	3	COM ARTS 266	Theory and Practice of Group Discussion	3
MARKETNG 310	Marketing Research	3	COM ARTS 272	Introduction to Interpersonal Communication	3
MARKETNG 415	Marketing Communications	3	COM ARTS 355	Introduction to Media Production	4
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3	COM ARTS 368	Theory and Practice of Persuasion	3
M E 314	Manufacturing Fundamentals	3	COM ARTS 410	Miscommunication	3
M E 549	Product Design	3	COM ARTS 560	Communication Theory	3
M H R 300	Managing Organizations	3	COM ARTS 562	Theories of Deliberation and Controversy	3
M H R 365	Contemporary Topics	1-3	COM ARTS 575	Communication in Complex Organizations	3
M H R 420	Managing Change and Organizational Effectiveness	3	ENGL 201	Intermediate Composition	3
M H R 612	Labor-Management Relations	3	ENGL 315	English Phonology	3
N E 571	Economic and Environmental Aspects of Nuclear Energy	3	ENGL 500	Writing in Workplaces	3
OTM 365	Contemporary Topics	1-3	ENGL 318	Second Language Acquisition	3
R M I 300	Principles of Risk Management	3	GEN BUS 300	Professional Communication	3-4

## TECHNICAL COMMUNICATION REQUIRED COURSES

Code	Title	Credits
E P D 397	Technical Communication	3
E P D 398	Technical Communications Internship (Required. This course, completed in conjunction with the Technical Communication Internship, can be repeated for an additional credit, which will count toward elective courses in technical communication from EPD. Also, this course can be substituted with a special project completed as an Independent Study course. )	1
Total Credits		4

## TECHNICAL COMMUNICATION ELECTIVES

Code	Title	Credits
Select a minimum of 8 credits <sup>2</sup>		8
Total Credits		8

### Elective Courses in Communication

Code	Title	Credits
E P D 275	Technical Presentations	2
E P D/E ASIAN 374	Intermediate Technical Japanese I	3
E P D 690	Special Topics in Engineering Professional Development (The Wisconsin Engineer Magazine - up to 2 semesters may count)	2

M E 231	Introductory Engineering Graphics	2
I SY E 515	Engineering Management of Continuous Process Improvement	3
BSE 375	Special Topics	1-4
CBE 324	Transport Phenomena Lab	3
CBE 424	Operations and Process Laboratory	5
COM ARTS 260	Communication and Human Behavior	3
COM ARTS 262	Theory and Practice of Argumentation and Debate	3
COM ARTS 263	Speech Composition	3
COM ARTS 266	Theory and Practice of Group Discussion	3
COM ARTS 272	Introduction to Interpersonal Communication	3
COM ARTS 355	Introduction to Media Production	4
COM ARTS 368	Theory and Practice of Persuasion	3
COM ARTS 410	Miscommunication	3
COM ARTS 560	Communication Theory	3
COM ARTS 562	Theories of Deliberation and Controversy	3
COM ARTS 575	Communication in Complex Organizations	3
ENGL 201	Intermediate Composition	3
ENGL 315	English Phonology	3
ENGL 500	Writing in Workplaces	3
ENGL 318	Second Language Acquisition	3
GEN BUS 300	Professional Communication	3-4
GEN BUS/ ENVIR ST 601	Systems Thinking and Sustainable Businesses	3
HIST SCI 201	The Origins of Scientific Thought	3
HIST SCI 202	The Making of Modern Science	3
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	3
JOURN 419	Electronic News for Web and Broadcast	4
JOURN 447	Strategic Media Planning	4
LSC 515	Public Information Campaigns and Programs	3
JOURN/POLI SCI/ URB R PL 373	Introduction to Survey Research	3
JOURN 563	Law of Mass Communication	4
L I S 601	Information: Perspectives and Contexts	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3
LSC 320	Feature Writing	3
LSC 350	Visualizing Science and Technology	3
LSC 515	Public Information Campaigns and Programs	3
M H R 365	Contemporary Topics	1-3
M H R 401	The Management of Teams	3
PHILOS 210	Reason in Communication	3-4
PHILOS 241	Introductory Ethics	3-4
PHILOS 243	Ethics in Business	3-4

PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH/I SY E 652	Sociotechnical Systems	3
PSYCH/I SY E 653	Organization and Job Design	3
SOC 250	Organizations and Society	3-4
SOC 535	Talk and Social Interaction	3
Independent Study courses by instructor approval only <sup>3</sup>		

<sup>2</sup> Note: These EPD courses **do NOT count toward** the TCC:

- E P D 654 Teaching in Science and Engineering
- E P D 690 Core Competency in Sustainability
- E P D 690 ATE Powertrain
- E P D 690 Essential Skills for Engineering Productivity

<sup>3</sup> Special credits in Technical Communication include E P D 299 Sophomore Independent Study, E P D 399 Junior Independent Study and E P D 499 Senior Independent Study.

## SENIOR DESIGN OR CAPSTONE

Code	Title	Credits
Select one of the following:		
B M E 400	Capstone Design Course in Biomedical Engineering	3
CIV ENGR 578	Senior Capstone Design	
G L E 479	Geological Engineering Design	
E M A 469	Design Problems in Engineering	
I SY E 476	Industrial Engineering Projects	
M E 349	Engineering Design Projects	
M E 351	Interdisciplinary Experiential Design Projects I	
M E 352	Interdisciplinary Experiential Design Projects II	
M S & E 470	Capstone Project I	
M S & E 471	Capstone Project II	
N E 571	Economic and Environmental Aspects of Nuclear Energy	
Total Credits		3

## TECHNICAL JAPANESE STUDIES FOR UNDERGRADUATES, CERTIFICATE

Japanese has become an important language in engineering and in business. In all major industrial fields Japanese technology is regarded as world class. An increasing number of American companies are establishing technical operations in Japan. These companies need engineers who can read and communicate in both English and Japanese. To meet this need, the College of Engineering offers a sequence of courses leading to a Certificate in Technical Japanese Studies for Undergraduates. This option is recommended for students who seek a balance among comprehension of technical Japanese, the ability to use Japanese in daily life, and an understanding of Japanese culture.

## REQUIREMENTS

In order to receive this certificate a student must complete a minimum of 27 credits. This certificate is available to **all** undergraduate students at UW–Madison, regardless of major. Students may not elect the pass/fail option for any course that is used to satisfy the requirements for this certificate. Students who receive this certificate develop conversational and written skills in colloquial Japanese, as well as reading and translation skills in technical Japanese. These skills are valued by employers when students apply for Japan-related jobs. The following courses are required:

Code	Title	Credits
<b>Japanese Language Courses (12 credits)</b>		
E ASIAN 104	Second Semester Japanese <sup>1</sup>	6
E ASIAN 203	Third Semester Japanese <sup>2</sup>	6
<b>Technical Japanese Courses (6 credits)</b>		
E P D/E ASIAN 374	Intermediate Technical Japanese I	3
E P D/E ASIAN 375	Intermediate Technical Japanese II <sup>3</sup>	3
Total Credits		18

<sup>1</sup> In order to enroll in E ASIAN 104 students must either:

- complete E ASIAN 103 (6 credits) or
- complete E ASIAN 123 **and** E ASIAN 124 or
- place out of E ASIAN 103 by passing a placement test.

<sup>2</sup> The combination of E ASIAN 104 and E ASIAN 203 will give students a strong foundation for interacting with Japanese counterparts. E ASIAN 123, E ASIAN 124 and E ASIAN 203 are frequently offered during the summer. This makes it possible for students with heavy credit loads to begin or continue their study of Japanese during the summer.

<sup>3</sup> The combination of E P D/E ASIAN 374 and E P D/E ASIAN 375 will give students experience reading Japanese essays on a range of scientific and technical topics—including computer science, physics, chemistry, and various fields of engineering. Students read and translate essays from all of these fields into English. In the process, students develop a strong technical vocabulary in Japanese and learn expressions that frequently appear in Japanese journal articles and technical reports.

## INDUSTRIAL AND SYSTEMS ENGINEERING

The first bachelor of science in industrial engineering at the University of Wisconsin–Madison was awarded in 1972. Since that time the demand for industrial engineers has grown dramatically for one chief reason: the need for organizations to raise their level of productivity through thoughtful, systematic applications.

Becoming an industrial engineer (IE) places one in an exciting field of engineering that focuses on productivity improvement worldwide. It is a field that deals as much with human aspects of work as with today's sophisticated tools of work.

What sets industrial engineering apart from other engineering disciplines is its broader scope. An IE deals with people as well as things. The

industrial engineer applies problem-solving techniques in almost every kind of industry, business, or institution. There are IEs in banks, hospitals, government at all levels, transportation, construction, processing, social services, electronics, facilities design, manufacturing, and warehousing.

An IE looks at the "big picture" of what makes society perform best—the right combination of human resources, natural resources, and human-made structures and equipment. An IE bridges the gap between management and operations, dealing with and motivating people as well as determining what tools should be used and how they should be used. Industrial engineering is concerned with performance measures and standards, research of new products and product applications, ways to improve use of scarce resources, and many other problem-solving adventures.

Because industrial engineering serves a broad cross-section of business, industry and institutions, the IE's work environment varies from office to plant to field. Choices can be made even after the IE begins his or her career. Few other vocations offer a graduating student such a wide selection of places to work or kind of work to perform. Need for industrial engineers makes this profession particularly attractive from the financial standpoint. Beginning salaries rank in the top group of high-paying engineering disciplines, and fast advancement is not unusual.

In the industrial and systems engineering department at UW–Madison, the course curriculum is set up to provide a diversified background and at the same time allow choices according to individual interests. Specialized coursework might be categorized in five main areas:

- Decision Science and Operations Research
- Health Systems Engineering
- Human Factors and Ergonomics
- Manufacturing and Production Systems
- Quality Engineering

Although there is no sub major within IE, it is possible to achieve a degree of specialization through a judicious choice of IE technical electives. Courses focusing on teams and design projects prepare students to succeed in the workplace.

## DEGREES/MAJORS/CERTIFICATES

- Industrial Engineering, B.S. (p. 269)

## PEOPLE

### PROFESSORS

Alagoz  
Bier  
Carayon  
Krishnamurthy  
Lee  
Li  
Linderoth (chair)  
Radwin  
Shi  
Veeramani  
Zhou

### ASSOCIATE PROFESSORS

Albert  
Luedtke  
Wiegmann

### ASSISTANT PROFESSORS

Del Pia  
Liu  
Wang  
Werner  
Zayas-Caban

See also Industrial and Systems Engineering Faculty Directory (<http://directory.engr.wisc.edu/ie/faculty>).

## INDUSTRIAL ENGINEERING, B.S.

The first bachelor of science in industrial engineering at the University of Wisconsin–Madison was awarded in 1972. Since that time the demand for industrial engineers has grown dramatically for one chief reason: the need for organizations to raise their level of productivity through thoughtful, systematic applications.

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What sets industrial engineering apart from other engineering disciplines is its broader scope. An IE deals with people as well as things. The industrial engineer applies problem-solving techniques in almost every kind of industry, business, or institution. There are IEs in banks, hospitals, government at all levels, transportation, construction, processing, social services, electronics, facilities design, manufacturing, and warehousing.

An IE looks at the "big picture" of what makes society perform best—the right combination of human resources, natural resources, and human-made structures and equipment. An IE bridges the gap between management and operations, dealing with and motivating people as well as determining what tools should be used and how they should be used. Industrial engineering is concerned with performance measures and standards, research of new products and product applications, ways to improve use of scarce resources, and many other problem-solving adventures.

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- Health Systems Engineering

- Human Factors and Ergonomics
- Manufacturing and Production Systems
- Quality Engineering

Although there is no sub major within IE, it is possible to achieve a degree of specialization through a judicious choice of IE technical electives. Courses focusing on teams and design projects prepare students to succeed in the workplace.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## INDUSTRIAL ENGINEERING CURRICULUM (FALL 2016 AND BEYOND)

The following curriculum applies to students admitted to the industrial engineering degree program beginning in fall 2016 or later. Required courses are indicated. The *Industrial Engineering Undergraduate Curriculum Guide* (<https://www.engr.wisc.edu/department/industrial-systems-engineering/academics/bachelor-of-science-in-industrial-and-systems-engineering>) contains lists of courses that fulfill the requirements in the following categories: General Education Communication Elective, Mathematics, Science, Engineering and Science Electives, IE Required Courses, IE Technical Electives, Junior Design and Senior Design. For Liberal Studies Electives refer to the College of Engineering Liberal Studies Guidelines.

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4

MATH 234	Calculus--Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	3
Total Credits		22

## SCIENCE

Code	Title	Credits
PHYSICS 201 or E M A 201	General Physics <sup>1</sup> Statics	5
PHYSICS 202	General Physics	5
CHEM 109	Advanced General Chemistry	5
COMP SCI 301 or COMP SCI 200 or COMP SCI 300	Introduction to Data Programming Programming I Programming II	3
Total Credits		18

<sup>1</sup> E M A 201 Statics alone does **not** meet the prerequisite for PHYSICS 202 General Physics. Students who take EMA 201 must take either E M A 202 Dynamics or M E 240 Dynamics in addition to meet the PHYSICS 202 prerequisites. E M A 202 and M E 240 will fulfill Engineering Science credit requirements.

## ENGINEERING AND SCIENCE ELECTIVES

Code	Title	Credits
Engineering Science (non ISyE or EPD) <sup>2</sup>		3
Statistics Elective		3
Math, Biology flexible electives		6
Computer Science Elective		3
Total Credits		15

<sup>2</sup> INTEREGR 170 Design Practicum (or other eligible INTEREGR departmental courses) will count toward the Engineering & Science elective credits.

## REQUIRED ISYE COURSES

Code	Title	Credits
ACCT I S 300 or ACCT I S 100	Accounting Principles Introductory Financial Accounting	3
ISY E 313	Engineering Economic Analysis	3
ISY E 315	Production Planning and Control	3
ISY E 320	Simulation and Probabilistic Modeling	3
ISY E 321	Simulation Modeling Laboratory	1
ISY E 323	Operations Research-Deterministic Modeling	3
ISY E 348	Introduction to Human Factors Engineering Laboratory	1
ISY E/PSYCH 349	Introduction to Human Factors	3
ISY E 350	Junior Design Laboratory	3

ISY E 415	Introduction to Manufacturing Systems, Design and Analysis	3
ISY E 417	Health Systems Engineering	3
ISY E 450	Senior Design Project	3
Total Credits		32

## ISYE TECHNICAL ELECTIVES

Code	Title	Credits
	Human Factors	
	Quantitative Methods	
	Quality Course Requirement	
INTEREGR 110	Introduction to Engineering <sup>3</sup>	

<sup>3</sup> This course is not required for transfer students. INTEREGR 110 Introduction to Engineering will count as a 1 credit undesignated I SY E Technical Elective for ISyE students.

## COMMUNICATION SKILLS AND LIBERAL STUDIES

Code	Title	Credits
ENGL 100 or COM ARTS 100	Introduction to College Composition Introduction to Speech Composition	3
or LSC 100 or ESL 118	Science and Storytelling Academic Writing II	
E P D 397	Technical Communication	3
Liberal Studies Electives (according to CoE regulations)		11
ECON 101	Principles of Microeconomics	4
Total Credits		21

## MINIMUM REQUIRED CREDITS: 121

## LEARNING OUTCOMES

At the time of graduation, UW-Madison Industrial Engineering students will have attained:

1. Apply knowledge of math, science, economics, and engineering principles to solve ISYE, social or business problems.
2. Recognize, describe, predict and analyze systems behavior.
3. Apply experimental design or data analytics.
4. Demonstrate ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
5. Design effective and efficient human and technical work systems.
6. Contribute to solving ISyE problems and cooperate with engineers to solve engineering and societal problems.
7. Identify, formulate, and solve engineering problems using appropriate information and approaches.
8. Understand physiological, cognitive, and sociotechnical aspects of humans as components in complex systems.
9. Identify opportunities and apply engineering solutions for evaluating productivity and quality improvement.
10. Demonstrate an understanding of professional and ethical responsibility.
11. Demonstrate an understanding of the impact of engineering solutions in a global, economic, environmental, and societal context.

12. Demonstrate knowledge of contemporary issues across various industries.
13. Show proficiency and effectiveness in technical communications.
14. Engage in continued learning and demonstrate an appreciation of the benefits of lifelong learning.
15. Apply the techniques, skills, and modern engineering tools necessary for engineering practice, such as quality engineering, optimization, simulation, and project management.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
MATH 221, 217, or 275	5 MATH 222 or 276	4
CHEM 109	5 PHYSICS 201	5
INTEREGR 110	1 ECON 101	4
Communications A	3 Liberal Studies Elective	3
	14	16

#### Second Year

Fall	Credits Spring	Credits
MATH 234	4 STAT 312	3
PHYSICS 202	5 I SY E 313	3
STAT 311	3 I SY E 315	3
COMP SCI 301	3 MATH 340	3
Engineering Science Elective	3 Engineering and Science Elective (Stats)	3
	18	15

#### Third Year

Fall	Credits Spring	Credits
I SY E 323	3 I SY E 320	3
I SY E 348	1 I SY E 321	1
I SY E/PSYCH 349	3 I SY E 350	3
ACCT I S 300 or 100	3 E P D 397	3
Engineering and Science Elective (ENGR)	3 Engineering and Science Elective (Comp Sci)	3
Liberal Studies Elective	3 ISyE Technical Elective	2
	16	15

#### Fourth Year

Fall	Credits Spring	Credits
I SY E 415	3 I SY E 450	3
ISyE Technical Elective (Human Factors)	3 ISyE Technical Elective (Quantitative Methods)	3
I SY E 417	3 ISyE Technical Elective (Quality)	3
Engineering Science Elective	3 Liberal Studies Elective	3
Liberal Studies Elective	3	
	15	12

Total Credits 121

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Alagoz  
Bier  
Carayon  
Krishnamurthy  
Lee  
Li  
Linderoth (chair)  
Radwin  
Shi  
Veeramani  
Zhou

### ASSOCIATE PROFESSORS

Albert  
Luedtke  
Wiegmann

### ASSISTANT PROFESSORS

Del Pia  
Liu  
Wang  
Werner  
Zayas-Caban

See also Industrial and Systems Engineering Faculty Directory (<http://directory.engr.wisc.edu/ie/faculty>).



## MATERIALS SCIENCE AND ENGINEERING

The Department of Materials Science and Engineering offers a B.S. degree in materials science and engineering and M.S. and Ph.D. degrees in materials engineering.

Advances in technology are closely linked to the materials that people can design, manipulate, and produce. How we live is connected to our abilities to process materials and manufacture products; to develop and design nontraditional as well as traditional materials for an increasingly broad range of industries; and to research and develop high-performance materials for practical applications in coming decades. The materials that change the way we live may be the next generation of superalloys for applications in extreme conditions such as high-temperature or highly corrosive environments; new materials for application in energy generation, storage, and transmission; organic and inorganic materials for use and integration in applications ranging from electronics to medicine; or new materials systems yet to be developed for the ever-increasing needs of our society. Materials experts find employment in a broad range of industries and may practice experimental, computational, or theoretical materials science and engineering, or all of these in combination. The undergraduate curriculum leads to the Bachelor of Science Degree in Materials Science and Engineering. The curriculum is designed to prepare students with the foundation needed to thrive in broad and rapidly changing industries that are based on materials. It also provides substantial flexibility, through electives and with the assistance of a materials science and engineering faculty advisor, for tailoring to students' specific interests within the materials field. Science, engineering, teamwork, broad thinking, and communication skills all are integral parts of the curriculum. Graduates are well prepared for careers in industry or for graduate studies.

## DEGREES/MAJORS/CERTIFICATES

- Materials Science and Engineering, B.S. (p. 273)

## PEOPLE

### PROFESSORS

Babcock  
Eom  
Evans  
Gopalan  
Kou  
Lagally  
Morgan  
Perepezko  
Stone  
Szulfarska  
Voyles

### ASSOCIATE PROFESSORS

Arnold (chair)  
Wang

### ASSISTANT PROFESSORS

Hu

Kawasaki

## MATERIALS SCIENCE AND ENGINEERING, B.S.

The Department of Materials Science and Engineering offers a B.S. degree in materials science and engineering and M.S. and Ph.D. degrees in materials engineering.

Advances in technology are closely linked to the materials that people can design, manipulate, and produce. How we live is connected to our abilities to process materials and manufacture products; to develop and design nontraditional as well as traditional materials for an increasingly broad range of industries; and to research and develop high-performance materials for practical applications in coming decades. The materials that change the way we live may be the next generation of superalloys for applications in extreme conditions such as high-temperature or highly corrosive environments; new materials for application in energy generation, storage, and transmission; organic and inorganic materials for use and integration in applications ranging from electronics to medicine; or new materials systems yet to be developed for the ever-increasing needs of our society. Materials experts find employment in a broad range of industries and may practice experimental, computational, or theoretical materials science and engineering, or all of these in combination. The undergraduate curriculum leads to the Bachelor of Science Degree in Materials Science and Engineering. The curriculum is designed to prepare students with the foundation needed to thrive in broad and rapidly changing industries that are based on materials. It also provides substantial flexibility, through electives and with the assistance of a materials science and engineering faculty advisor, for tailoring to students' specific interests within the materials field. Science, engineering, teamwork, broad thinking, and communication skills all are integral parts of the curriculum. Graduates are well prepared for careers in industry or for graduate studies.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

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### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their

intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

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## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

The following curriculum applies to students admitted to the materials science and engineering degree program (MS&E) in or after fall semester of 2011.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	19
	Science Foundation	21
	Engineering Foundation	7
	MS&E Required Courses	40
	Materials Emphasis Elective Requirements	15
	Communication Skills	5
	Liberal Studies	16
	Free Electives	5
	<b>Total Credits</b>	<b>128</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
	or MATH 217 Calculus with Algebra and Trigonometry II	
	or MATH 275 Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
	or MATH 275 Topics in Calculus I	
MATH 234	Calculus—Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3
	or MATH 320 Linear Algebra and Differential Equations	
STAT 324	Introductory Applied Statistics for Engineers	3
	<b>Total Credits</b>	<b>19</b>

## SCIENCE FOUNDATION

Code	Title	Credits
<i>Physics</i>		
Select one of the following:		10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	

PHYSICS 247 & PHYSICS 248	A Modern Introduction to Physics and A Modern Introduction to Physics	
<i>Chemistry</i>		
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	5
CHEM 343 or CHEM 341	Introductory Organic Chemistry Elementary Organic Chemistry	3
<i>Science Elective</i>		
Select one of the following:		3
CHEM 311	Chemistry Across the Periodic Table	
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 345	Intermediate Organic Chemistry	
GEOSCI 203	Earth Materials	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
Total Credits		21

## ENGINEERING FOUNDATION

Code	Title	Credits
<i>Introduction to Engineering</i>		
INTEREGR 110	Introduction to Engineering	1
<i>Engineering Foundations Elective</i>		
Select one of the following:		3
CBE 255	Introduction to Chemical Process Modeling	
COMP SCI 200	Programming I	
COMP SCI 300	Programming II	
COMP SCI 310	Problem Solving Using Computers	
COMP SCI 400	Programming III	
E C E 230	Circuit Analysis	
E C E 376	Electrical and Electronic Circuits	
E M A 303	Mechanics of Materials	
PHYSICS 321	Electric Circuits and Electronics	
M E/STAT 424	Statistical Experimental Design	
<i>Engineering and Society Elective</i>		
Select one of the following:		3
CIV ENGR/ BSE 491	Legal Aspects of Engineering	
INTEGSCI 260	Entering Research Part 1	
ENVIR ST/ ATM OCN 171	Global Change: Atmospheric Issues and Problems	

ENVIR ST/A A E/ ECON 343	Environmental Economics	
ENVIR ST/ BSE 367	Renewable Energy Systems	
ENVIR ST/ GEOSCI 411	Energy Resources	
I SY E 313	Engineering Economic Analysis	
I SY E/PSYCH 349	Introduction to Human Factors	
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
Total Credits		7

## MATERIALS SCIENCE AND ENGINEERING REQUIRED COURSES

Code	Title	Credits
M S & E 330	Thermodynamics of Materials	4
M S & E 331	Transport Phenomena in Materials	3
M S & E 332	Macroprocessing of Materials	3
M S & E 333	Microprocessing of Materials	3
M S & E 351	Materials Science-Structure and Property Relations in Solids	3
M S & E 352	Materials Science-Transformation of Solids	3
M S & E 360	Materials Laboratory I	1
M S & E 361	Materials Laboratory II	2
M S & E 362	Materials Laboratory III	2
M S & E/CHEM 421	Polymeric Materials	3
M S & E 441	Deformation of Solids	3
M S & E 451	Introduction to Ceramic Materials	3
M S & E 456	Electronic, Optical, and Magnetic Properties of Materials	3
M S & E 470	Capstone Project I	1
M S & E 471	Capstone Project II	3
Total Credits		40

## MATERIALS SCIENCE AND ENGINEERING EMPHASIS ELECTIVES

Code	Title	Credits
Select two 3-credit MS&E courses numbered 400 or above		6
Select 9 credits of science and engineering coursework in consultation with an MS&E advisor <sup>1</sup>		9
Total Credits		15

<sup>1</sup> Select, in consultation with an MS&E advisor, 9 credits of science and engineering coursework from MS&E courses numbered 400 or above, other engineering courses numbered 300 or above, science courses numbered 300 or above, or up to 3 credits of M S & E 1 Cooperative Education Program. MS&E advisor approval of the set of selections is required. Course sets may be broad-based or concentrated in a subfield of materials science and engineering. See department for examples of focused, materials-emphasis elective course sets.

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100 or COM ARTS 100 or LSC 100 or ESL 118	Introduction to College Composition Introduction to Speech Composition Science and Storytelling Academic Writing II	3
E P D 397	Technical Communication	3
Total Credits		6

**LIBERAL STUDIES**

Complete requirements (p. 200).<sup>2</sup>

<sup>2</sup> Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same department or program. At least one of these two courses must be designated as above the elementary level (I, A, or D).
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

**FREE ELECTIVES**

Select 5 elective credits<sup>3</sup>.

<sup>3</sup> The above subject requirements can be met with 123 credits of UW courses. Students must complete 128 credits of coursework to earn the B.S. in materials science and engineering. The 5 elective credits may be earned by choosing elective courses that carry more credits than the requirement's minimum credit load or by taking any additional coursework of the student's choice.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

- a. Students shall be able to apply knowledge of mathematics, chemistry, physics, and materials science and engineering principles to materials and materials systems.
- b. Students shall be able to design and conduct experiments to study the microstructure, properties, processing and performance of materials and to analyze and interpret the experimental results.
- c. Students shall be able to design materials and processes to produce them to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and/or sustainability.
- d. Students shall be able to work in multi-disciplinary teams and provide leadership on materials related problems that arise in multi-disciplinary work.
- e. Students shall be able to identify materials-related problems and formulate plans to solve such problems.
- f. Students shall have an understanding of professional and ethical responsibility.
- g. Students shall be able to communicate materials concepts effectively through written reports, oral presentations, and discussion.
- h. Students shall have the broad education necessary to understand the impact of materials science and engineering solutions in a global, economic, environmental, and societal context.
- i. Students shall have the materials science and engineering foundation needed to succeed in materials science and engineering graduate programs, to pursue other forms of continuing education in materials science and engineering, and to engage in life-long learning of materials science and engineering.
- j. Students shall have an awareness of contemporary and cultural issues.
- k. Students shall be able to use the techniques, skills, and modern materials science and engineering tools necessary to practice materials science and engineering as a professional.

**FOUR-YEAR PLAN****SAMPLE FOUR-YEAR PLAN**

First Year		
Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
CHEM 109	5 PHYSICS 201, 207, or 247	5
INTEREGR 110	1 Science Elective	3
Communications A	3 Liberal Studies Elective	3

Liberal Studies Elective	3	
	17	15

**Second Year**

Fall	Credits Spring	Credits
MATH 234	4 MATH 319 or 320	3
PHYSICS 202, 208, or 248	5 STAT 324	3
M S & E 330	4 M S & E 352	3
M S & E 351	3 M S & E 361	2
M S & E 360	1 Liberal Studies Elective	4
	17	15

**Third Year**

Fall	Credits Spring	Credits
CHEM 341 or 343	3 M S & E 331	3
M S & E 332	3 M S & E 333	3
M S & E 362	2 M S & E/CHEM 421	3
M S & E 451	3 Engineering Foundations Elective	4
Liberal Studies Elective	3 Liberal Studies Elective	3
Free Elective	3	
	17	16

**Fourth Year**

Fall	Credits Spring	Credits
M S & E 441	3 M S & E 471	3
M S & E 456	3 Tech Emphasis Elective	3
M S & E 470	1 Tech Emphasis Elective	3
Tech Emphasis Elective	3 Materials Emphasis Elective	3
Materials Emphasis Elective	3 E P D 397	3
Engineering and Society Elective	3 Free elective credits (2) if needed	
	16	15

Total Credits 128

**ADVISING AND CAREERS****ADVISING**

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

**ENGINEERING CAREER SERVICES**

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

**PEOPLE****PROFESSORS**

Babcock  
Eom  
Evans  
Gopalan  
Kou  
Lagally  
Morgan  
Perepezko  
Stone  
Szlufarska  
Voyles

**ASSOCIATE PROFESSORS**

Arnold (chair)  
Wang

**ASSISTANT PROFESSORS**

Hu  
Kawasaki

**MECHANICAL ENGINEERING**

Mechanical engineers are problem-solvers who make things work better, more efficiently, and more economically. They are innovators, coming up with original ideas to apply scientific knowledge in new ways. Mechanical engineers are builders, designing and developing machines and systems that make life easier. Mechanical engineers have strong science, mathematics, and technology backgrounds.

Manufacturing processes, design of mechanical equipment and systems, and energy generation and utilization are traditional mechanical engineering fields. Students receive basic preparation in all of these areas. Through choice of elective courses they may further specialize in areas such as automatic control systems, renewable energy systems, robotics, product design, biomedical engineering, computational mechanics, manufacturing systems engineering, etc. Mechanical engineering prepares students for entrance into industry, for independent business (e.g., consulting, contracting, or manufacturing), or for work in government agencies. A degree in mechanical engineering may be used as a background for medicine, law, or business, as well as for graduate work in engineering.

Work in these areas requires a solid background in mathematics, statistics, mechanics, physics, machine design, thermal sciences, materials, the use of computers, and manufacturing processes. Mechanical engineers must also possess good communication skills and be able to work in teams. Mechanical Engineers should be aware of social and environmental consequences of their work.

With these skills, broad training, and an emphasis on systems design, mechanical engineers are in demand in practically every type of manufacturing, consulting, sales, and research organization. Mechanical engineers may work in automotive, materials processing, heavy

equipment, paper, plastics, power, aerospace, chemical, electronics, or many other large and small industries. Their work may involve research and development of new products, design of equipment or systems, supervision of production, plant engineering, administration, sales engineering, or testing of individual components or complete assemblies.

Although many special areas exist in the profession, mechanical engineering can be subdivided into energy systems and mechanical systems.

The energy systems field has taken on special significance with the current awareness of the limited energy sources and the effects of energy use on the environment. In this field, mechanical engineers carry out work on the behavior of liquids, gases, and solids as they are used in all types of energy-conversion systems. Automotive engines, gas turbines, steam power plants, refrigeration systems, air pollution control, cryogenics and energy utilization require this type of background. To be proficient in this the engineer must have a knowledge of thermodynamics, fluid dynamics, heat transfer, and related subjects.

The mechanical systems field covers the design and manufacturing of products and equipment. Mechanical engineers who focus on design conceive of new devices and machines and also refine and improve existing designs. The design engineer must be proficient in kinematics, machine elements, mechanics, strength and properties of materials, dynamics, vibrations, etc. Mechanical engineers who focus on manufacturing are involved with planning and selecting manufacturing methods, with designing and developing manufacturing equipment, and with increasing the efficiency and productivity of current manufacturing technologies for polymer, metal, and ceramic products. The manufacturing engineer uses chemistry, materials science, mechanics of materials, materials processing principles and practices, principles of computer control, engineering statistics, and other physical and thermal sciences to improve manufacturing operations and systems, and the products they produce. Increasingly, the systems that mechanical engineers work with incorporate biological and information technology components.

## DEGREES/MAJORS/CERTIFICATES

- Engineering Thermal Energy Systems, Certificate (p. 278)
- Manufacturing Engineering, Certificate (p. 279)
- Mechanical Engineering, B.S. (p. 281)

## PEOPLE

### PROFESSORS

Ghandi (chair)  
 Engelstad  
 Lorenz  
 Nellis (also Engineering Physics)  
 Osswald (also Materials Science and Engineering)  
 Pfothner (also Engineering Physics)  
 Reitz  
 Rowlands  
 Rutland  
 Sanders (also Electrical and Computer Engineering)  
 Shapiro (also Computer Science)  
 Suresh  
 Thelen (also Biomedical Engineering)

Turng (also Biomedical Engineering and Materials Science and Engineering)

### ASSOCIATE PROFESSORS

Krupenkin  
 Negrut (also Electrical and Computer Engineering, and Materials Science and Engineering)  
 Pfefferkorn (also Materials Science and Engineering)  
 Ploeg (also Biomedical Engineering)  
 Qian  
 Rothamer  
 Shedd  
 Trujillo (also Engineering Physics)  
 Zinn (also Biomedical Engineering)

### ASSISTANT PROFESSORS

Adamczyk (also Biomedical Engineering)  
 Eriten (also Materials Science and Engineering)  
 Henak (also Biomedical Engineering)  
 Kokjohn, Miller (also Engineering Physics)  
 Min  
 Pan  
 Peherstorfer  
 Roldan-alzate (also Biomedical Engineering)  
 Rudolph

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Automatic Controls Lab  
 Automotive Lab  
 Computer-Aided Design Lab (CADLAB)  
 Energy Lab  
 Engineering Graphics Labs  
 Fluid Power Lab  
 Instrumentation Lab  
 Mechatronics and Manufacturing Automation Lab  
 Motor Vehicle Lab  
 Polymer Processing Lab  
 Research Labs  
 Senior Design Studio  
 Student Shop  
 Motor Vehicle Lab  
 Polymer Processing Lab  
 Research Labs  
 Senior Design Studio  
 Student Shop

## ENGINEERING THERMAL ENERGY SYSTEMS, CERTIFICATE

Efficient use of thermal energy is an increasingly popular area of interest for UW–Madison engineering students and employers. The objective of the Certificate in Engineering Thermal Energy Systems program is to provide students in the College of Engineering with an organized set of courses that will improve their capacity to analyze and design innovative thermal energy systems. These systems include, but are not limited to,

energy conversion systems and their fuels, refrigeration, combustion, and solar energy. Thermal energy systems either employ thermal energy directly or convert thermal energy to other energy forms.

## HOW TO GET IN

Second- and third-year students who wish to apply for admission into this certificate program will need to complete a major/certificate declaration form obtained from the student services office in the student's major department. The student should have a B or better average in the major to enter this program. Once approved by the student services office and the student's faculty advisor, the form will be forwarded to the registrar's office to be added to the student record. The student services office will, in conjunction with the student's advisor and curriculum committee chair, assist the student in selecting appropriate courses that fulfill certificate requirements. If a Special student does not have a home department in the College of Engineering, the Department of Mechanical Engineering will advise and sponsor the student in this program. To receive the certificate, the applicant must achieve a GPA of 3.0 or higher in the proposed courses listed on the completed form.

Submit the completed Declaration of Intent Form (<https://www.engr.wisc.edu/app/uploads/2016/02/certificate-in-engineering-thermal-energy-systems-declaration-of-intent.pdf>) to student services.

## REQUIREMENTS

The certificate, geared toward UW–Madison undergraduate students, requires a total of 18 completed credits. Up to 9 of the credits can be thermal-energy-related courses that are required in the student's undergraduate major. The additional 9 credits must be selected from an assortment of approved elective courses in the College of Engineering.

## COURSES

Courses not on this list must be specifically approved by the curriculum committee of the applicant's major department.

Code	Title	Credits
<b>Mechanical Engineering</b>		
M E 461	Thermal Systems Modeling	3
M E 466	Air Pollution Effects, Measurements and Control	3
M E 469	Internal Combustion Engines	3
M E/N E 520	Two-Phase Flow and Heat Transfer	3
M E 561	Intermediate Thermodynamics	3
M E 563	Intermediate Fluid Dynamics	3
M E 564	Heat Transfer	3
M E/N E 565	Power Plant Technology	3
M E/E P 566	Cryogenics	3
M E/CBE 567	Solar Energy Technology	3
M E 569	Applied Combustion	3
M E 572	Intermediate Gas Dynamics	3
M E 573	Computational Fluid Dynamics	3
<b>Chemical and Biological Engineering</b>		
CBE/B M E 320	Introductory Transport Phenomena	4
CBE 430	Chemical Kinetics and Reactor Design	3

CBE 440	Chemical Engineering Materials	3
CBE/M E 567	Solar Energy Technology	3
CBE 535	Heterogeneous Catalysis: Principles and Applications	3
<b>Civil and Environmental Engineering</b>		
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
<b>Engineering Mechanics and Astronautics</b>		
E M A 521	Aerodynamics	3
<b>Nuclear Engineering</b>		
N E 411	Nuclear Reactor Engineering	3
N E/M E 520	Two-Phase Flow and Heat Transfer	3
N E 550	Advanced Nuclear Power Engineering	3
N E/M E 565	Power Plant Technology	3
E P/M E 566	Cryogenics	3
<b>Biological Systems Engineering</b>		
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
<b>Materials Science and Engineering</b>		
M S & E 463	Materials for Elevated Temperature Service	3

# MANUFACTURING ENGINEERING, CERTIFICATE

## OVERVIEW

Are you a student interested in manufacturing? Do you like drawing on a variety of skills and knowledge to solve complex problems? If so, you may wish to consider this certificate.

Because manufacturing itself is complex and broad, manufacturing engineers apply many engineering principles and work in a multidisciplinary world. This certificate allows students to emphasize either manufacturing systems or manufacturing processes—or, they can choose to spread courses evenly across both. Through this certificate, students will gain an understanding of these two areas of manufacturing. Undergraduates in industrial and systems engineering or mechanical engineering can pursue this certificate without adding time to the degree.

## HOW TO GET IN

### ENROLLMENT

This undergraduate certificate is open to all undergraduate students at the University of Wisconsin–Madison. Mechanical Engineering and Industrial and Systems Engineering students can complete this certificate without adding time to degree.

### ADMISSION

Admission into the undergraduate certificate in manufacturing engineering requires:

- Undergraduate standing at UW–Madison
- Cumulative GPA (at UW–Madison) greater than or equal to 3.0

- Green Shop Pass with CNC 1 upgrade (College of Engineering Student Shop)
- Completion of the admissions form
- Meeting with a faculty advisor

Students must complete an admissions form (under development; check back soon or contact Frank Pfefferkorn), obtain the required signatures, and bring the form to one of the student services coordinators for the Department of Mechanical Engineering. The form will be used to ensure that students have completed the Green Shop Pass and CNC 1 upgrade in the College of Engineering Student Shop, meet the GPA requirement for admission, meet the course grade requirement for courses already completed, and list courses that are planned in order to satisfy the certificate program. The form will contain fields for the following information:

- Study plan (courses that have been taken, are being taken, and plan to take)
  - Core courses
  - Elective courses
  - Grades for any courses that have already been taken
  - When future courses will be taken
- Cumulative GPA at time of admission
- Expected graduation date
- Major
- Signature from Student Shop indicating successful completion of the Green Shop Pass and CNC 1 upgrade
- Signature from a key program faculty member indicating that the student meets the admission requirements and has discussed the study plan with the faculty member

## COMPLETION

In order to successfully complete the undergraduate certificate in manufacturing engineering, students must:

- Have been admitted to the certificate
- Maintain a cumulative GPA of 3.0 or greater for the courses taken for the certificate. If a course is repeated, the average of the grades received in the course will be used in calculating the cumulative GPA.
- Have received a grade of BC or higher in all courses taken for the certificate. If a course is repeated the highest grade received in the course is used for this criteria.

## REQUIREMENTS

The core courses were chosen to include two manufacturing process focused courses as well as two manufacturing-systems-focused courses. A manufacturing engineer must be multidisciplinary because of the complex and broad nature of manufacturing as an application of many engineering principles. The objective of the core course requirements is to provide students with basic understanding of manufacturing systems and basic understanding of manufacturing processes.

Code	Title	Credits
<b>Three courses must be from the following Core Courses with a grade of BC or better:</b>		
M E 313	Manufacturing Processes	9
M E 314	Manufacturing Fundamentals <sup>1</sup>	

I SY E 315	Production Planning and Control	9	
I SY E 415	Introduction to Manufacturing Systems, Design and Analysis <sup>1</sup>		
<b>An additional three courses must be from any of the following Elective Courses with a grade of BC or better, with at least one course from each of the two categories:</b>			
<i>1. Mechanical and Materials Engineering Electives</i>			
M E 314	Manufacturing Fundamentals <sup>1</sup>	9	
M E 417	Introduction to Polymer Processing		
M E 418	Engineering Design with Polymers		
M E 419	Fundamentals of Injection Molding		
M E 420	Introduction to Polymer Composites Processing		
M E 429	Metal Cutting		
M E/E C E 439	Introduction to Robotics		
M E 447	Computer Control of Machines and Processes		
M E 449	Redesign and Prototype Fabrication		
M E 514	Additive Manufacturing		
M S & E/M E 435	Joining of Materials: Structural, Electronic, Bio and Nano Materials	9	
M S & E 461	Advanced Metal Casting		
M S & E/M E 462	Welding Metallurgy	9	
<i>2. Industrial &amp; Systems Engineering Electives</i>			
I SY E 415	Introduction to Manufacturing Systems, Design and Analysis <sup>1</sup>		
I SY E/M E 510	Facilities Planning		
I SY E/M E 512	Inspection, Quality Control and Reliability		
I SY E/B M E 564	Occupational Ergonomics and Biomechanics		
I SY E 575	Introduction to Quality Engineering		
I SY E 605	Computer Integrated Manufacturing		
I SY E 615	Production Systems Control		
I SY E/M E 641	Design and Analysis of Manufacturing Systems		
I SY E/M E 643	Performance Analysis of Manufacturing Systems		

<sup>1</sup> If M E 314 and/or I SY E 415 are taken as part of the Core Course Requirement, then they cannot also count as an elective.

No exceptions or substitutions to the core courses are allowed.

Elective courses not listed must be specifically approved by the curriculum committee of the department teaching the course. The request must include the course number, course name, name and contact information for the professor currently teaching or planning to teach the course; syllabus; and which category it should be listed under. Courses that are approved by the curriculum committee of the department teaching the course must be sent the certificate program director. Only formal courses will be considered.

Only courses taken for a letter grade count toward this certificate. Only courses in which a grade of BC or better is received count toward this certificate. Courses taken at other institutions may be counted toward this certificate if they have been identified as equivalent through the



existing process. At least 50% of the courses (i.e., three courses) for this certificate must be earned in residence on the UW–Madison campus.

Students must maintain a cumulative GPA of 3.0 or better for the courses taken for this certificate. If a course is repeated, the average of the grades received in the course will be used in calculating the cumulative GPA.

## PEOPLE

### KEY PROGRAM FACULTY (MAY SERVE AS ADVISORS FOR STUDENTS PURSUING THIS CERTIFICATE)

#### Department of Mechanical Engineering (ME)

- Kim Manner, Senior Lecturer
- Tim Osswald, Professor
- Frank E. Pfefferkorn, Associate Professor
- Natalie Rudolph, Assistant Professor
- Lih-Sheng (Tom) Turng, Professor

#### Department of Industrial & Systems Engineering (ISyE)

- Ananth Krishnamurthy, Associate Professor
- Jingshan Li, Professor
- Kaibo Liu, Assistant Professor
- Leyuan Shi, Professor
- Shiyu Zhou, Professor

## MECHANICAL ENGINEERING, B.S.

Mechanical engineers are problem-solvers who make things work better, more efficiently, and more economically. They are innovators, coming up with original ideas to apply scientific knowledge in new ways. Mechanical engineers are builders, designing and developing machines and systems that make life easier. Mechanical engineers have strong science, mathematics, and technology backgrounds.

Manufacturing processes, design of mechanical equipment and systems, and energy generation and utilization are traditional mechanical engineering fields. Students receive basic preparation in all of these areas. Through choice of elective courses they may further specialize in areas such as automatic control systems, renewable energy systems, robotics, product design, biomedical engineering, computational mechanics, manufacturing systems engineering, etc. Mechanical engineering prepares students for entrance into industry, for independent business (e.g., consulting, contracting, or manufacturing), or for work in government agencies. A degree in mechanical engineering may be used as a background for medicine, law, or business, as well as for graduate work in engineering.

Work in these areas requires a solid background in mathematics, statistics, mechanics, physics, machine design, thermal sciences, materials, the use of computers, and manufacturing processes. Mechanical engineers must also possess good communication skills and be able to work in teams. Mechanical Engineers should be aware of social and environmental consequences of their work.

With these skills, broad training, and an emphasis on systems design, mechanical engineers are in demand in practically every type of manufacturing, consulting, sales, and research organization. Mechanical engineers may work in automotive, materials processing, heavy equipment, paper, plastics, power, aerospace, chemical, electronics, or many other large and small industries. Their work may involve research and development of new products, design of equipment or systems,

supervision of production, plant engineering, administration, sales engineering, or testing of individual components or complete assemblies.

Although many special areas exist in the profession, mechanical engineering can be subdivided into energy systems and mechanical systems.

The energy systems field has taken on special significance with the current awareness of the limited energy sources and the effects of energy use on the environment. In this field, mechanical engineers carry out work on the behavior of liquids, gases, and solids as they are used in all types of energy-conversion systems. Automotive engines, gas turbines, steam power plants, refrigeration systems, air pollution control, cryogenics and energy utilization require this type of background. To be proficient in this the engineer must have a knowledge of thermodynamics, fluid dynamics, heat transfer, and related subjects.

The mechanical systems field covers the design and manufacturing of products and equipment. Mechanical engineers who focus on design conceive of new devices and machines and also refine and improve existing designs. The design engineer must be proficient in kinematics, machine elements, mechanics, strength and properties of materials, dynamics, vibrations, etc. Mechanical engineers who focus on manufacturing are involved with planning and selecting manufacturing methods, with designing and developing manufacturing equipment, and with increasing the efficiency and productivity of current manufacturing technologies for polymer, metal, and ceramic products. The manufacturing engineer uses chemistry, materials science, mechanics of materials, materials processing principles and practices, principles of computer control, engineering statistics, and other physical and thermal sciences to improve manufacturing operations and systems, and the products they produce. Increasingly, the systems that mechanical engineers work with incorporate biological and information technology components.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/> apply) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-major>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/progression-requirements>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>). The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers

group information sessions (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Admissions and Advising Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-second-degree-students>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

The following curriculum applies to undergraduate students admitted to the Mechanical Engineering degree program in Fall 2016 or later. Check with the department for any recent changes. Students admitted before Fall 2016 can locate their curriculum at this link (<https://www.engr.wisc.edu/department/mechanical-engineering/academics/bachelor-of-science-in-mechanical-engineering>).

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	19
	Basic Science	17
	Non–Mechanical Engineering	13
	Mechanical Engineering Core	45
	Technical Electives	12
	Math/Science Electives	3
	Communication Skills	6
	Liberal Studies	15
	Total Credits	130

### MATHEMATICS/STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus—Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
STAT 224	Introductory Statistics for Engineers	3

All transfer students must have the equivalent of the above courses as equated by the College of Engineering Admissions Office. If the above requirement is fulfilled with fewer than 19 credits, the balance becomes free elective credits.

Transfer students may fulfill the statistics requirement with almost any statistics course having a calculus prerequisite and the approval of the mechanical engineering department via a Course Substitution Form.

### BASIC SCIENCE

Code	Title	Credits
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9

COMP SCI 301	Introduction to Data Programming	3
PHYSICS 202	General Physics <sup>1</sup>	5

<sup>1</sup> Students following the normal ME course sequence need not take PHYSICS 201 General Physics to satisfy the prerequisites for PHYSICS 202 General Physics.

## NON-MECHANICAL ENGINEERING

Code	Title	Credits
INTEREGR 110	Introduction to Engineering	1
E M A 201	Statics	3
M S & E 350	Introduction to Materials Science	3
E C E 376	Electrical and Electronic Circuits	3
E C E 377	Fundamentals of Electrical and Electro-mechanical Power Conversion	3

## MECHANICAL ENGINEERING CORE

Code	Title	Credits
M E 201	Introduction to Mechanical Engineering	3
M E 231	Introductory Engineering Graphics	2
M E 240	Dynamics	3
M E 306	Mechanics of Materials	3
M E/E M A 307	Mechanics of Materials Lab	1
M E 313	Manufacturing Processes	3
M E 314	Manufacturing Fundamentals	3
M E 331	Geometric Modeling for Engineering Applications	3
M E 340	Introduction to Dynamic Systems	3
M E 342	Design of Machine Elements	3
M E 351 & M E 352	Interdisciplinary Experiential Design Projects I and Interdisciplinary Experiential Design Projects II	3
or M E 349	Engineering Design Projects	
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
M E 364	Elementary Heat Transfer	3
M E 368	Engineering Measurements and Instrumentation	4
M E 370	Energy Systems Laboratory	3

## TECHNICAL ELECTIVES

The mechanical engineering curriculum requires a total of 12 credits of technical electives. A minimum of 6 of those 12 credits must be from formal M E courses numbered 400 and higher. A formal course is defined as a class that meets regularly in a lecture format to study a selected topic. The educational mission is assisted with homework and exams. Formal courses include online courses but do not include seminar, survey, independent study, research, or similar courses.

Technical electives include engineering, mathematics, physics, chemistry, statistics, and computer science courses numbered 400 and higher. INTEREGR and EPD courses are limited to those listed below. The following courses are also accepted as technical electives:

BMOLCHEM 314	Introduction to Human Biochemistry	3
BSE 351	Structural Design for Agricultural Facilities	3
BSE 364	Engineering Properties of Food and Biological Materials	3
CBE/B M E 320	Introductory Transport Phenomena	4
CBE 326	Momentum and Heat Transfer Operations	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 315	Hydrology	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/G L E 330	Soil Mechanics	4
CIV ENGR 370	Transportation Engineering	3
CHEM 341	Elementary Organic Chemistry	3
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
COMP SCI/E C E 354	Machine Organization and Programming	3
COMP SCI 367	Introduction to Data Structures	3
E C E 320	Electrodynamics II	3
E C E 330	Signals and Systems	3
E C E 340	Electronic Circuits I	3
E C E 342	Electronic Circuits II	3
E C E/COMP SCI 352	Digital System Fundamentals	3
E C E 353	Introduction to Microprocessor Systems	3
E C E/COMP SCI 354	Machine Organization and Programming	3
E C E 355	Electromechanical Energy Conversion	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
E P D/E ASIAN 374	Intermediate Technical Japanese I	3
E P D/E ASIAN 375	Intermediate Technical Japanese II	3
INTEREGR 301	Engineering and Biology: Technological Symbiosis	1-4
I SY E 323	Operations Research-Deterministic Modeling	3
I SY E/PSYCH 349	Introduction to Human Factors	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
M E 273	Engineering Problem Solving with EES	1
M E 351	Interdisciplinary Experiential Design Projects I	3
M S & E 330	Thermodynamics of Materials	4
M S & E 332	Macroprocessing of Materials	3
M S & E 352	Materials Science-Transformation of Solids	3

N E 305	Fundamentals of Nuclear Engineering	3
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
PHYSICS 322	Electromagnetic Fields	3
PHYSICS 325	Wave Motion and Optics	3
PHYSIOL 335	Physiology	5
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	3
STAT 333	Applied Regression Analysis	3
STAT 349	Introduction to Time Series	3
STAT 351	Introductory Nonparametric Statistics	3

Up to 3 technical elective credits may be obtained for non-formal courses such as independent study courses (M E 489, M E 491, M E 492, and other engineering independent study courses numbered 399 and higher); Cooperative Education (M E 1); and E P D 690, "Wisconsin Engineer Magazine."

## MATH/SCIENCE ELECTIVES

Code	Title	Credits
The mechanical engineering curriculum requires 3 credits of math/science electives. Any formal course listed as a biological science and numbered 100 or higher will satisfy this requirement. In addition, any formal course offered by an engineering department, or listed as a physical or natural science, and numbered 200 or higher, will also satisfy this requirement. INTEREGR and EPD courses will not satisfy the math/science elective requirement.		

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 397	Technical Communication	3

## LIBERAL ELECTIVES

Code	Title	Credits
The Mechanical Engineering curriculum requires 15 credits of liberal elective courses. See College of Engineering Liberal Studies Requirements for details.		
Complete Requirements (p. 200)		15
Total Credits		15

## ADDITIONAL INFORMATION

Students fulfilling all course requirements with fewer than 130 credits must comply with the 130-credit minimum by taking additional free elective credits. Students in good standing may take free elective courses pass/fail (see the College of Engineering Official Regulations (<https://www.engr.wisc.edu/academics/student-services/academic-advising/>)).

undergraduate-engineering-students/rules-and-regulations) for details). Pass/fail courses do not count toward specific degree requirements.

Independent Studies and projects courses:

Code	Title	Credits
M E 291	Ungergraduate Mechanical Engineering Projects	1-3
M E 299	Independent Study	1-3
M E 489	Honors in Research	1-3
M E 491	Mechanical Engineering Projects I	1-3
M E 492	Mechanical Engineering Projects II	1-3

Students must have a cumulative 2.5 GPA or a 3.0 GPA for their previous two semesters and file an Independent Studies Application form with the Student Services Office before enrolling for the course.

For information on credit loads, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations.

## LEARNING OUTCOMES

The Mechanical Engineering curriculum is designed so that, by the time of graduation, students will have developed the following attributes:

- an ability to apply knowledge of mathematics, science, and engineering.
- an ability to design and conduct experiments, as well as to analyze and interpret data.
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- an ability to function on multidisciplinary teams.
- an ability to identify, formulate, and solve engineering problems.
- an understanding of professional and ethical responsibility.
- an ability to communicate effectively.
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- a recognition of the need for, and an ability to engage in life-long learning.
- a knowledge of contemporary issues.
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

First Year		
Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
CHEM 103 <sup>1</sup>	4 CHEM 104 <sup>1</sup>	5
INTEREGR 110	1 E M A 201	3
M E 201	3 STAT 224	3

Liberal Elective	3 Communications A	3
	16	18

**Second Year**

Fall	Credits Spring	Credits
MATH 234	4 M E 361	3
MATH 320	3 M E 306	3
M E 240	3 M E/E M A 307	1
M E 231	2 M S & E 350	3
COMP SCI 301	3 PHYSICS 202	5
	Liberal Elective	3
	15	18

**Third Year**

Fall	Credits Spring	Credits
M E 363	3 M E 364	3
M E 331	3 M E 368	4
M E 340	3 M E 313	3
E C E 376	3 E C E 377	3
E P D 397	3 M E 342	3
Liberal Elective	3	
	18	16

**Fourth Year**

Fall	Credits Spring	Credits
M E 351	3 M E 352	3
M E 314	3 M E 370	3
Technical Elective	3 Technical Elective	3
Technical Elective	3 Math/Science Elective	3
Liberal Elective	3 Liberal Elective	3
	15	15

Total Credits 131

<sup>1</sup> CHEM 109 Advanced General Chemistry may be taken in place of CHEM 103 General Chemistry I and CHEM 104 General Chemistry II; however, students must take additional free electives to meet the minimum number of credits required for the degree.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Ghandi (chair)  
 Engelstad  
 Lorenz  
 Nellis (also Engineering Physics)  
 Osswald (also Materials Science and Engineering)  
 Pfothner (also Engineering Physics)  
 Reitz  
 Rowlands  
 Rutland  
 Sanders (also Electrical and Computer Engineering)  
 Shapiro (also Computer Science)  
 Suresh  
 Thelen (also Biomedical Engineering)  
 Turng (also Biomedical Engineering and Materials Science and Engineering)

### ASSOCIATE PROFESSORS

Krupenkin  
 Negrut (also Electrical and Computer Engineering, and Materials Science and Engineering)  
 Pfefferkorn (also Materials Science and Engineering)  
 Ploeg (also Biomedical Engineering)  
 Qian  
 Rothamer  
 Shedd  
 Trujillo (also Engineering Physics)  
 Zinn (also Biomedical Engineering)

### ASSISTANT PROFESSORS

Adamczyk (also Biomedical Engineering)  
 Eriten (also Materials Science and Engineering)  
 Henak (also Biomedical Engineering)  
 Kokjohn, Miller (also Engineering Physics)  
 Min  
 Pan  
 Peherstorfer  
 Roldan-alzate (also Biomedical Engineering)  
 Rudolph

# COLLEGE OF LETTERS & SCIENCE

## WHY CHOOSE THE COLLEGE OF LETTERS & SCIENCE (L&S)?

What's so great about a liberal arts education from UW–Madison?

For one thing, it makes for a college experience that is rich in discovery, exploration, personal growth, and new ideas.

But while your courses may be fascinating, liberating, eye-opening and mind-blowing, a liberal arts degree from UW–Madison keeps working for you long after you have graduated.

By pursuing a degree in the liberal arts—a bachelor of arts or a bachelor of science—you are preparing for long-term satisfaction in work and in life. A liberal arts degree is a journey of self-discovery, as you explore new topics and discuss ideas with a wide range of people. You delve deeply into a broad range of subjects beyond just your major. When you graduate, you aren't narrowly prepared for one field. You've developed writing, presentation, and analytical skills. You've been exposed to the scientific method, as well as literary analysis. A chemistry major, for example, will also graduate with knowledge of a language, history, social science, the arts, and more.

### WHY DOES THIS MATTER?

Because the more you know, the more curious you become. Curious people seek opportunities to enrich and expand their lives. Learning leads to conversation, dialogue, innovation, advancement. Employers value liberal arts majors because they are problem-solvers, out-of-the-box thinkers, and good communicators.

### CAN A 4-YEAR DEGREE FROM L&S REALLY OPEN DOORS WITH EMPLOYERS?

Yes, it can. Based on a recent L&S alumni survey rigorously designed and administered by the university's nationally renowned survey center, our graduates' employment rates are on par with the School of Business and the College of Engineering, and out-perform the national average for university graduates. They work for an extremely wide range of fields, including technology, corporate management, education, and nonprofits.

L&S alumni also report high job satisfaction and believe that their academic preparation gave them an advantage compared to employees from other colleges and universities.

Then there's our L&S Career Initiative (<http://ls.wisc.edu/about/lsci>) (LSCI)—unique among large public universities. Funded by alumni and sponsored by key employers, the LSCI is designed to help each and every one of our students—not just the extra-motivated or well-connected few—define his or her path. We start where *you* are—and go from there. From the basics of resume-building, to connecting with alumni mentors, to landing an internship, the resources are at your fingertips.

### BUT WE VALUE LEARNING FOR ITS OWN SAKE, HERE.

You will never regret your liberal arts degree from UW–Madison, because it gives you the opportunity to explore subjects that fascinate you, as well as prepare you for a successful career. You will connect with wonderful faculty from 125 departments, programs, centers and institutes, whose

mentoring and teaching will influence your goals and direction. And you will gain an appreciation for learning that will last a lifetime.

The University of Wisconsin–Madison is one of the great universities of the world, and the College of Letters & Science (<http://www.ls.wisc.edu>) is at its center. Students who earn a bachelor of arts or bachelor of science degree in the College of Letters & Science (L&S) complement their broad study in the liberal arts and sciences with in-depth study of one or more particular fields, or "majors." Majors range from African languages and literature to philosophy in the humanities, from astronomy to zoology in the natural sciences, and from Afro-American studies to sociology in the social sciences.

In addition to the bachelor of arts and bachelor of science degrees available in L&S, the college also offers a limited number of special degrees. These programs often have additional admission requirements and require completion of additional requirements in the major.

Finally, a wide array of certificate programs are also available for students who have special interests in such diverse topics as integrated liberal studies; international, global, and area studies; religious, ethnic, and gender studies; and more.

## DEGREES/MAJORS/CERTIFICATES

All students pursuing their undergraduate studies in the College of Letters & Science **must** fulfill the following requirements:

- General Education Requirements (p. 17)
- Letters & Science Requirements (p. 312)
- Major Requirements (See below)

- African Languages and Literature, B.A. (p. 326)
- African Languages and Literature, B.S. (p. 331)
- African Studies, Certificate (p. 741)
- Afro-American Studies, B.A. (p. 335)
- Afro-American Studies, B.S. (p. 339)
- Afro-American Studies, Certificate (p. 343)
- American Indian Studies, Certificate (p. 345)
- Anthropology, B.A. (p. 348)
- Anthropology, B.S. (p. 353)
- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 914)
- Archaeology, Certificate (p. 357)
- Art History, B.A. (p. 360)
- Art History, B.S. (p. 369)
- Asian American Studies, Certificate (p. 380)
- Asian Studies, B.A. (p. 745)
- Asian Studies, B.S. (p. 750)
- Astronomy–Physics, B.A. (p. 415)
- Astronomy–Physics, B.S. (p. 417)
- Atmospheric and Oceanic Sciences, B.A. (p. 421)
- Atmospheric and Oceanic Sciences, B.S. (p. 424)
- Biochemistry, B.A. (L&S) (p. 449)
- Biochemistry, B.S. (L&S) (p. 458)
- Biology Core Curriculum Honors, Certificate (p. 466)
- Biology, B.A. (L&S) (p. 1113)
- Biology, B.S. (L&S) (p. 1123)
- Botany, B.A. (p. 470)

- Botany, B.S. (p. 473)
- Cartography and Geographic Information Systems, B.A. (p. 650)
- Cartography and Geographic Information Systems, B.S. (p. 654)
- Celtic Studies, Certificate (p. 709)
- Chemistry, B.A. (p. 487)
- Chemistry, B.S. (p. 492)
- Chicana/o and Latina/o Studies, Certificate (p. 498)
- Chinese Professional Communications, Certificate (p. 382)
- Chinese, B.A. (p. 384)
- Chinese, B.S. (p. 389)
- Classical Humanities, B.A. (p. 501)
- Classical Humanities, B.S. (p. 506)
- Classical Studies, Certificate (p. 510)
- Classics, B.A. (p. 513)
- Classics, B.S. (p. 516)
- Communication Arts, B.A. (p. 526)
- Communication Arts, B.S. (p. 531)
- Communication Sciences and Disorders, B.A. (p. 540)
- Communication Sciences and Disorders, B.S. (p. 543)
- Comparative Literature and Folklore Studies, B.A. (p. 548)
- Comparative Literature and Folklore Studies, B.S. (p. 551)
- Computer Sciences, B.A. (p. 556)
- Computer Sciences, B.S. (p. 560)
- Computer Sciences, Certificate (p. 565)
- Conservation Biology, B.A. (p. 475)
- Conservation Biology, B.S. (p. 480)
- Criminal Justice, Certificate (p. 888)
- Digital Studies, Certificate (p. 536)
- East Asian Studies, Certificate (p. 755)
- East Central European Languages, Literatures, and Cultures, Certificate (p. 675)
- Economics, B.A. (p. 567)
- Economics, B.S. (p. 572)
- English, B.A. (p. 578)
- English, B.S. (p. 590)
- Environmental Sciences, B.A. (L&S) (p. 427)
- Environmental Sciences, B.S. (L&S) (p. 434)
- Environmental Studies Major (p. 604)
- European Studies, Certificate (p. 757)
- Folklore, Certificate (p. 554)
- French, B.A. (p. 611)
- French, B.S. (p. 616)
- French, Certificate (p. 621)
- Gender and Women's Studies, B.A. (p. 632)
- Gender and Women's Studies, B.S. (p. 639)
- Gender and Women's Studies, Certificate (p. 646)
- Geography, B.A. (p. 657)
- Geography, B.S. (p. 661)
- Geology and Geophysics, B.A. (p. 666)
- Geology and Geophysics, B.S. (p. 670)
- German, B.A. (p. 676)
- German, B.S. (p. 681)
- German, Certificate (p. 686)
- Global Cultures, Certificate (p. 768)
- Health and the Humanities, Certificate (p. 602)
- History and History of Science, Medicine, and Technology, B.A. (p. 710)
- History and History of Science, Medicine, and Technology, B.S. (p. 713)
- History of Science, Medicine, and Technology, B.A. (p. 716)
- History of Science, Medicine, and Technology, B.S. (p. 719)
- History, B.A. (p. 722)
- History, B.S. (p. 730)
- Individual Major, B.A. (p. 900)
- Individual Major, B.S. (p. 903)
- Integrated Liberal Studies, Certificate (p. 884)
- Integrated Studies in Science, Engineering, and Society, Certificate (p. 1077)
- International Studies, B.A. (p. 769)
- International Studies, B.S. (p. 814)
- Italian, B.A. (p. 623)
- Italian, B.S. (p. 627)
- Italian, Certificate (p. 631)
- Japanese Professional Communication, Certificate (p. 393)
- Japanese, B.A. (p. 396)
- Japanese, B.S. (p. 400)
- Jewish Studies, B.A. (p. 980)
- Jewish Studies, B.S. (p. 985)
- Jewish Studies, Certificate (p. 990)
- Journalism, JBA (p. 1045)
- Journalism, JBS (p. 1049)
- LGBTQ+ Studies, Certificate (p. 648)
- Languages and Cultures of Asia, B.A. (p. 404)
- Languages and Cultures of Asia, B.S. (p. 410)
- Latin American, Caribbean, and Iberian Studies, B.A. (p. 859)
- Latin American, Caribbean, and Iberian Studies, B.S. (p. 865)
- Latin, B.A. (p. 519)
- Latin, B.S. (p. 522)
- Legal Studies, B.A. (p. 890)
- Legal Studies, B.S. (p. 895)
- Linguistics, B.A. (p. 906)
- Linguistics, B.S. (p. 909)
- Material Culture Studies, Certificate (p. 377)
- Mathematics, B.A. (p. 916)
- Mathematics, B.S. (p. 925)
- Mathematics, Certificate (p. 934)
- Medieval Studies, Certificate (p. 738)
- Microbiology, B.A. (L&S) (p. 441)
- Microbiology, B.S. (L&S) (p. 445)
- Middle East Studies, Certificate (p. 872)
- Molecular Biology, B.A. (p. 1133)
- Molecular Biology, B.S. (p. 1137)
- Music, B.A. (p. 937)
- Music, B.S. (p. 946)
- Music: Education, B.M. (p. 956)

- Music: Performance, B.M. (p. 968)
- Neurobiology, B.A. (p. 1141)
- Neurobiology, B.S. (p. 1147)
- Philosophy, B.A. (p. 992)
- Philosophy, B.S. (p. 995)
- Physics, B.A. (p. 1000)
- Physics, B.S. (p. 1006)
- Physics, Certificate (p. 1013)
- Polish, B.A. (p. 687)
- Polish, B.S. (p. 689)
- Political Economy, Philosophy, and Politics, Certificate (p. 1015)
- Political Science, B.A. (p. 1016)
- Political Science, B.S. (p. 1022)
- Portuguese, B.A. (p. 1093)
- Portuguese, B.S. (p. 1095)
- Psychology, B.A. (p. 1027)
- Psychology, B.S. (p. 1031)
- Religious Studies, B.A. (p. 1035)
- Religious Studies, B.S. (p. 1038)
- Religious Studies, Certificate (p. 1042)
- Russian, B.A. (p. 692)
- Russian, B.S. (p. 696)
- Russian, East European, and Central Asian Studies, Certificate (p. 875)
- Scandinavian Studies, B.A. (p. 700)
- Scandinavian Studies, B.S. (p. 703)
- Scandinavian Studies, Certificate (p. 706)
- Social Welfare, B.A. (p. 1055)
- Social Welfare, B.S. (p. 1060)
- Social Work, BSW (p. 1066)
- Sociology, B.A. (p. 1079)
- Sociology, B.S. (p. 1086)
- South Asian Studies, Certificate (p. 878)
- Southeast Asian Studies, Certificate (p. 882)
- Spanish Studies for Business Students, Certificate (p. 1098)
- Spanish Studies for Business Students, Certificate (<http://guide.wisc.edu/undergraduate/letters-science/spanish-portuguese/spanish-studies-business-students-certificate>)
- Spanish, B.A. (p. 1099)
- Spanish, B.S. (p. 1102)
- Statistics, B.A. (p. 1106)
- Statistics, B.S. (p. 1109)
- Teaching English to Speakers of Other Languages, Certificate (p. 603)
- Zoology, B.A. (p. 1152)
- Zoology, B.S. (p. 1157)

to the university as a freshman, transfer, or international student is available through the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/apply>).

Prospective students with questions about study in the College of Letters & Science may contact L&S Academic Advising Services (<http://advising.ls.wisc.edu>) at 608-262-5858 or Cross-College Advising Service (<https://ccas.wisc.edu>) at 608-265-5460. Students should also feel free to contact the major department (p. 286) directly if they have specific questions about a particular major.

## TRANSFER STUDENTS

Transfer students interested in earning an undergraduate degree in the College of Letters & Science will need to apply for admission through the Office of Admissions and Recruitment at UW–Madison. Transfer students must complete all Letters & Science degree requirements. Once admitted, transfer students should obtain a copy of their DARS report, which will explain how their transfer credits will apply toward L&S requirements. Students can request and review their DARS in the Student Center via My UW (<https://my.wisc.edu>). Students can also request DARS for programs, majors, or certificates that they have not declared but are interested in declaring. These reports are called "what-if" reports. (Please note that some programs may not be available in DARS. For information about requirements in a program not available in DARS, contact the advisor for the particular program.)

**Please note that the DARS audit serves as the *document of record* (DOR) for students in the College of Letters & Science. The DOR is used to certify completion of degree requirements, and it is retained according to university record retention and archival policies.**

Students can transfer only a limited number of credits from non-degree-granting accredited institutions and correspondence courses. See Credit Limitations from Non-Degree-Granting Accredited Institutions (p. 288).

Transfer students who have more than 30 degree credits are ineligible to earn retroactive credits in a foreign language on the UW–Madison campus. See Credit by Department Examination (p. 288).

Advisors for freshman and sophomore students are in the L&S Academic Advising Services (608-262-5858) in Suite 155 Middleton Building, 1305 Linden Drive, and the Cross-College Advising Service (608-265-5460) in 10 Ingraham Hall. Junior and senior transfer students should meet with an advisor in the department in which they intend to major. All L&S undergraduate students are expected to declare a major by the time they have 86 degree credits.

Transfer students should note that the L&S degree requirements have changed as of summer 2007. Those students who matriculated before May 21, 2007 are eligible to complete the degree requirements in force at the time they began their college-level studies. (See previous catalogs under Archive (<http://guide.wisc.edu/archive>) for more information.)

Because some requirements in force before this edition of the Guide differ substantially from the requirements articulated here, transfer students are strongly encouraged to refer to the undergraduate catalog in force at the time of their first matriculation to college. (See past catalogs (<http://guide.wisc.edu/archive>) to review the requirements that apply.) For some students, it may be to their benefit to consider transferring to the new degree requirements; they may consult with their academic advisor if they wish to consider this option.

## ENTERING THE COLLEGE

### ADMISSIONS

Any student interested in earning an undergraduate degree in the College of Letters & Science will need to apply for admission through the Office of Admissions and Recruitment at UW–Madison. Information on applying



## ON-CAMPUS TRANSFER

Continuing UW–Madison students must have a minimum 2.0 cumulative grade point average **and** a UW–Madison grade point average of at least 2.000 in their most recent semester of work in order to transfer into the College of Letters & Science. First-semester and new transfer students without a UW–Madison grade point average may transfer into Letters & Science provided they meet university admission requirements (three units of math and two units of a single foreign language). Students admitted to the university with admission deficiencies must remove those deficiencies before they are eligible to transfer into L&S. **For more information on transferring into L&S or signing up for a Transfer Workshop, call 608-262-5858 or refer to request to transfer into L&S** (<http://advising.ls.wisc.edu/transfer.html>).

Students transferring into one of the general courses from a special course (AMEP, Music), or from another college/school of the university to the College of Letters & Science will receive no more than 18 credits per semester toward graduation for work already completed, unless a 3.000 grade point average was earned the previous semester or the semester the overload was carried. Then a maximum of 20 credits from that term may be transferred. These transferring students will receive credit for studies in another college/school, but will be subject to the conditions of the Liberal Arts and Science Credits requirement. (See Liberal Arts and Science Credits (p. 312).)

## UNIVERSITY SPECIAL STUDENTS

If you are not currently enrolled in a UW–Madison degree program but wish to take courses within the College of Letters & Science at UW–Madison for credit or as an auditor, it may be best to consider becoming a University Special student. Information about becoming a non degree-seeking student at UW–Madison can be found at University Special Students (<http://continuingstudies.wisc.edu/advising/univspec.htm>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning described below—tools, breadth, and depth—work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

Additional information about the Wisconsin Experience can be found through the Office of Admissions and Recruitment/Why UW link ([https://www.admissions.wisc.edu/why/wisconsin\\_experience.php](https://www.admissions.wisc.edu/why/wisconsin_experience.php)).

## POLICIES AND REGULATIONS

### ACADEMIC STATUS

#### ACADEMIC PROBATION

Every student is expected to maintain at least a C average (2.000 grade point average) on all work carried, whether passed or not, in each term (fall, spring, and summer). Failure to earn this minimum grade point average will result in a status of **probation, strict probation, or dropped**, as shown below.

Every student can determine their academic status at the end of each term (fall, spring, or summer) based on the probationary status when the term began and the grade point average earned during that term.

1. If a student is not on probation and:
  - a. earns a grade point average in the fall term, spring term, or summer term between 1.000–1.999: placed on **probation**.
  - b. earns a grade point average in the fall term, spring term, or summer term less than 1.000: placed on **strict probation**.
2. If a student is on probation and:
  - a. earns a grade point average in the fall term, spring term, or summer term between 1.500–1.999: placed on **strict probation**.
  - b. earns a grade point average in the fall term, spring term, or summer term less than 1.500: **dropped for at least one year**.
3. If a student is on strict probation and the grade point average is less than 2.000: **dropped for at least one year**.

If a student is dropped for one year, the student must stay out of school for a minimum of twelve (12) months. For more information on Academic Probation and Drop, refer to Probation (<http://saa.ls.wisc.edu/probation-overview.htm>) and What exactly is the L&S Academic Probation System? (<https://kb.wisc.edu/ls/page.php?id=21180>)

#### ACADEMIC SUSPENSION (DROPPED FOR ONE YEAR)

An L&S undergraduate student on academic probation will be dropped (placed on academic suspension) for at least one year at the end of any term in which the student has had at least two terms below a 2.000 grade point average (GPA). The College of Letters & Science undergraduate probation system is as follows:

- If a student is not on probation and earns a term GPA of 1.000 - 1.999, the student is placed on **probation**.
- If a student is not on probation and earns a term GPA of less than 1.000, the student is placed on **strict probation**.

- If a student is on probation and earns a term GPA of 1.500 - 1.999, the student is placed on **strict probation**.
- If a student is on probation and earns a term GPA of less than 1.500, the student is **dropped for one (1) year**.
- If a student is on strict probation and earns a term GPA below 2.000, the student is **dropped on one (1) year**.

Students have the opportunity to appeal the “dropped for one year status” from the University of Wisconsin-Madison by participating in the Appeals Process (also known as Faculty Appeals). It is important to note that appealing one’s drop status **does not** guarantee a student will be readmitted to the University. For more information about appealing, see appeal dropped status (<http://saa.ls.wisc.edu/probation-appeals-process.htm>) or contact L&S Undergraduate Academic Deans’ Services (<http://saa.ls.wisc.edu/deans-services.htm>) for more assistance.

## APPEALS

### Exceptions for Students in Dropped Status

A student who has been dropped for academic reasons may appeal for readmission. More detailed information can be found at appeal dropped status (faculty appeals) (<http://saa.ls.wisc.edu/probation-appeals-process.htm>).

- Students dropped at the end of fall term who wish to continue in school in the spring term **must** appeal for readmission the week before spring term classes begin.
- Students dropped at the end of spring term who wish to continue in school for the summer or fall term must appeal for readmission the week before the beginning of the first three-week summer term begins for students who wish to take summer classes, **or** before the eight-week summer term begins for students who do not wish to take summer courses.
- Students dropped at the end of a summer term who wish to continue in school for the fall term **must** appeal for readmission the week before fall term classes begin.

Additional information concerning appeals is available at Appeal Dropped Status (<http://saa.ls.wisc.edu/probation-appeals-process.htm>).

### Exceptions to Basic Degree Requirements

A student wishing to request an exception to a basic degree requirement must first confer with an academic dean (<http://saa.ls.wisc.edu/deans-services.htm>). Only in extremely rare and unusual circumstances will any exception be made.

### Exceptions to Major Requirements

A student wishing to request an exception to a requirement in the major must first confer with the advisor or chair of the department. If the department supports the request, a DARS exception is submitted on behalf of the student to Academic Information Management (AIM) in L&S Student Academic Affairs.

### Exceptions to College Rules

A student wishing to request an exception to college rules should consult an academic dean in L&S Undergraduate Academic Deans’ Services (<http://saa.ls.wisc.edu/deans-services.htm>). The dean will consider the request on an individual basis and make a decision to grant or to deny the request.

## CLASS STANDING

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

**Freshman:** fewer than 24 credits

**Sophomore:** at least 24 credits and 48 grade points

**Junior:** at least 54 credits and 108 grade points

**Senior:** at least 86 credits and 172 grade points

***These credits and grade points must be in courses that count toward a Letters & Science degree.***

## DEAN'S LIST

The College of Letters & Science Dean’s List is established at the end of each fall and spring terms. To be eligible for the Dean’s List in a given term, students **must**:

- complete a minimum of 12 graded credits in that term with a minimum GPA of 3.600 for students who are classified as freshmen (fewer than 24 credits) and sophomores (at least 24 credits), **or**
- complete a minimum of 12 graded credits in that term with a minimum GPA of 3.850 for students who are classified as juniors (at least 54 credits) and seniors (at least 86 credits).

An entry, “Dean’s List,” appears on the student’s grade report and on the transcript.

- Students who have P grades for their senior thesis (regardless of whether they have 12 other graded credits), as well as students with unresolved grades of NR, I, and Q **are not** eligible for the Dean’s List until they get these outstanding temporary grades resolved.
- Once a student has resolved any outstanding grade issues and believes he/she qualifies to be on the Dean’s List, the student should contact L&S Undergraduate Academic Deans’ Services (<http://saa.ls.wisc.edu/deans-services.htm>) for more assistance.
- ***Please note that the College of Letters & Science does not “round up” for the purpose of tabulating the GPA for the Dean’s List.***

More information can be found at how do I qualify for the Dean’s List (<https://kb.wisc.edu/lis/page.php?id=21121>). For information about class standing, see how can I determine my classification or class standing (<https://kb.wisc.edu/lis/page.php?id=38197>).

## DISTINCTION IN THE MAJOR

This award is granted at graduation, upon the recommendation of a department to the dean, to any student not earning the Honors Degree who has done superior work in

the major and who has passed a comprehensive examination on that work. The comprehensive examination may be omitted for the student with a 3.500 grade point average in the major who successfully completes special work prescribed by the department. The award is noted on the student's transcript.

## ADMISSIONS AND TRANSFERS

### ON-CAMPUS TRANSFERS

Continuing UW–Madison students must have a minimum 2.000 cumulative grade point average **and** a UW–Madison grade point average of at least 2.000 in their most recent semester of work in order to transfer into the College of Letters & Science. First-semester and new transfer students without a UW–Madison grade point average may transfer into Letters & Science provided they meet university admission requirements (three units of math and two units of a single foreign language). Students admitted to the university with admission deficiencies must remove those deficiencies before they are eligible to transfer into L&S. **For more information on transferring into L&S or signing up for a Transfer Workshop, call 608-262-5858 or refer to request to transfer into L&S** (<http://advising.ls.wisc.edu/transfer.html>).

Students transferring into one of the general courses from a special course (AMEP, Music), or from another college/school of the university to the College of Letters & Science will receive no more than 18 credits per semester toward graduation for work already completed, unless a 3.000 grade point average was earned the previous semester or the semester the overload was carried. Then a maximum of 20 credits from that term may be transferred. These transferring students will receive credit for studies in another college/school, but will be subject to the conditions of the Liberal Arts and Science Credits requirement. (See Liberal Arts and Science Credits (p. 312).)

### READMISSION

Students who have been required by the College of Letters & Science to take off time from their undergraduate studies at UW–Madison due to past academic performance (dropped/academic suspension) must apply for readmission with an academic dean in the College of Letters & Science in order to be eligible for reentry through the Office of Admissions and Recruitment. For more detailed information about apply for readmission, refer to readmission (<http://saa.ls.wisc.edu/readmission.htm>) through L&S Student Academic Affairs. More detailed information about the readmission process can be found by contact L&S Undergraduate Academic Deans Services (<http://saa.ls.wisc.edu/deans-services.htm>) ([lsdeans@saa.ls.wisc.edu](mailto:lsdeans@saa.ls.wisc.edu) or 608-262-0617).

### REENTRY

Students who previously attended the University of Wisconsin–Madison but have not been enrolled in courses for at least one term/semester (not including the summer term) are considered reentry students. The primary admission consideration for a reentry student would be his/her academic record while previously enrolled at UW–Madison. For more information about this process, refer to reentry admissions

(<https://www.admissions.wisc.edu/apply/reentry>) via the Office of Admissions and Recruitment website.

**Note:** Any L&S undergraduate student who has been dropped (put on academic suspension) for at least one year due to their academic performance must also apply for readmissions through the College of Letters & Science. For more information, please refer to readmission (<http://saa.ls.wisc.edu/readmission.htm>).

### TRANSFER STUDENTS

Transfer students must complete all Letters & Science degree requirements. Once admitted, transfer students should obtain a copy of their DARS report, which will explain how their transfer credits will apply toward L&S requirements. DARS reports can be requested from the Degree Audit section of the registrar's office or accessed via My UW–Madison (<http://my.wisc.edu>).

Students can transfer only a limited number of credits from non-degree-granting accredited institutions and correspondence courses. See Credit Limitations from Non-Degree-Granting Accredited Institutions (p. 288).

Transfer students who have more than 30 degree credits are ineligible to earn retroactive credits in a foreign language on the UW–Madison campus. See Credit by Department Examination (p. 288).

Advisors for freshman and sophomore students are in the L&S Academic Advising Services (608-262-5858) in Suite 155 Middleton Building, 1305 Linden Drive, and the Cross-College Advising Center (608-265-5460) in 10 Ingraham Hall. Junior and senior transfer students should meet with an advisor in the department in which they intend to major.

Transfer students should note that the L&S degree requirements have changed as of summer 2007. Those students who matriculated before May 21, 2007, are eligible to complete the degree requirements in force at the time they began their college-level studies. (See previous catalogs under Archive (<http://guide.wisc.edu/archive>) for more information.)

Because some requirements in force before this edition of the Guide differ substantially from the requirements articulated here, transfer students are strongly encouraged to refer to the undergraduate catalog in force at the time of their first matriculation to college. (See past catalogs (<http://guide.wisc.edu/archive>) to review the requirements that apply.) For some students, it may be to their benefit to consider transferring to the new degree requirements; they may consult with their academic advisor if they wish to consider this option.

### TRANSFER STUDENTS WITH AN ASSOCIATE DEGREE FROM A UW SYSTEM INSTITUTION OR WISCONSIN TECHNICAL COLLEGE SYSTEM SCHOOL

Effective summer/fall 2012, all new transfer students with an associate's degree from either a UW System (UWS) institution or one of the Wisconsin Technical College System (WTCS) schools that award a liberal arts associate's degree (i.e., Madison College, MATC–Milwaukee, Nicolet, Chippewa

Valley, Western) will have their University General Education Requirement (UGER) (p. 17) breadth requirements satisfied in all undergraduate schools/colleges on the UW–Madison campus. **L&S undergraduates should be aware that they may need to complete additional coursework to satisfy L&S breadth (p. 312) and other degree requirements.** Students should consult their DARS and speak with their undergraduate advisors if they have additional questions regarding satisfying L&S requirements.

WTCS transfer students should be aware that only liberal arts associate's degrees that are approved by both WTCS and UW System Administration are eligible for this provision. Students with associate degrees in technical fields will not have their UGER breadth requirements satisfied.

UWS and WTCS transfer students with a qualifying liberal arts associate's degree are EXEMPT from meeting the following University General Education Breadth requirements:

- Natural Science—two (2) courses for a total of 6 credits
- Humanities/Literature/Arts—6 credits
- Social Studies—3 credits

Students will still be required to meet other University General Education Requirements (p. 17).

**Please note:**

- Students in the College of Letters & Science must meet the L&S breadth requirements (p. 312) with specific transfer courses or courses taken in residence.

## COURSES AND ENROLLMENT

### AUDIT

A student may enroll in a course (i.e., a lecture course) on an audit basis only with prior consent of the instructor of the course. As an auditor, the student is considered a passive learner and may not recite in class or take examinations. Courses with laboratory or performance skills may not be audited. Regular class attendance is expected. Courses audited carry no degree credit and are not graded. The credit value of courses carried on an audit basis is included in the semester program load for purposes of determining fees and maximum credits carried. Courses carried on an audit basis may have an impact on students applying for scholarships or other forms of financial assistance. Students should contact the unit/agency administering the scholarship or Student Financial Services for more guidance. **Students should also contact their insurance company to determine whether auditing a course (or courses) will have an impact on their coverage.** See what does it mean to audit a course (<https://kb.wisc.edu/lis/page.php?id=26734>) for more details.

L&S undergraduate students who wish to change their registration in a course from a credit basis to an audit basis must do so within the first four weeks of the semester by submitting a Course Change Form (available at Course Change Request ([https://registrar.wisc.edu/course\\_change\\_request.htm](https://registrar.wisc.edu/course_change_request.htm))) to Suite 110 Ingraham Hall,

1155 Observatory Drive. (**Course Change Requests can be accessed through an individual's Student Center in My UW** (<https://my.wisc.edu>) **under: Course Enrollment/Term Information/Course Change Request.**) Students **will not** be able to submit or cancel a request to audit a course after the fourth week of the fall or spring term.

- For modular and summer session courses, audit requests must be submitted by the Friday of the week in which the session is one-fourth completed.
- Audits may affect a student's eligibility for financial aid (including Social Security and Veterans' benefits). Students should consult an advisor in the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) for more detailed information.
- Students with questions about their Veteran benefits and taking courses on an audit basis should contact the Veteran Services & Military Assistance Center (<http://veterans.wisc.edu>).

## CERTIFICATE PROGRAMS

Students who intend to complete a certificate program in Letters & Science are encouraged to meet with the certificate advisor to determine eligibility requirements that may apply. Admission to a certificate program (<http://guide.wisc.edu/explore-majors>) requires meeting with the advisor to declare the specific certificate program. Students should use a degree audit (DARS) to monitor their progress in completing their certificate(s) since DARS is the official document used to certify completion of certificate programs. See DARS ([https://registrar.wisc.edu/dars\\_student.htm](https://registrar.wisc.edu/dars_student.htm)) for more information.

Students who decide not to complete the program after being admitted must cancel the certificate declaration with the certificate advisor. Students are advised of the following details regarding certificate programs:

- **Some certificate programs may require or encourage students to take courses that are not designated as Liberal Arts and Science courses.** These courses **do not** count toward satisfaction of the requirement that students complete 108 credits in Liberal Arts and Sciences.
- Students may elect to count these credits among the allowed 12 free elective credits in the degree but should also be mindful of the fact that these courses **will not** count toward fulfilling breadth or level within L&S.
- An exception **will not** be made to count non Liberal Arts and Science courses for breadth and level if a student is using these credits to fulfill a certificate program and/or trying to fulfill other major/degree requirements.
- Completion of some certificate programs may require students to take more than 12 non–Liberal Arts and Sciences credits. **Students may not count more than 12 non–Liberal Arts and Sciences credits toward their L&S degree under any circumstances.**
- **Certificate programs are optional and are not required for graduation.** Because failure to complete a certificate program will not affect eligibility to

graduate, students should understand that, *unless the certificate program is allowed to grant awards to University Special students*, they **must** complete all certificate requirements before graduation or they will not be able to complete the certificate program at a later date.

- **Course work being taken to satisfy certificate requirements should not be taken on a pass/fail basis.** Students should consult the advisor for the particular certificate program for more information about taking classes to satisfy certificate requirements.

## CLASS ATTENDANCE POLICY

It is expected that every student will be present at all classes. Students are required to be present at the opening of the term and to remain until the work of the term (which includes the final examination period) is completed. **Note that any excused or unexcused absences may have a negative impact on a student's final grade in a course.** See the faculty senate approved class attendance policy ([https://www.secfac.wisc.edu/FacLeg100\\_299.htm#108](https://www.secfac.wisc.edu/FacLeg100_299.htm#108)) and what is the class attendance policy for students at UW–Madison (<https://kb.wisc.edu/lis/page.php?id=24628>) for more details.

## CONCURRENT REGISTRATION AND ENROLLMENT AT UW–MADISON AND ANOTHER INSTITUTION

In some rare circumstances, and only with prior approval of an academic dean, students may enroll to earn degree credit concurrently at UW–Madison and any other accredited postsecondary school, including the UW–Extension.

Requests for approval should be made prior to the end of the second week of classes of the semester in which dual registration is desired (UW–Madison calendar). **Correspondence courses must be completed during the semester in which concurrent enrollment is allowed. To request permission for concurrent enrollment, see Concurrent Enrollment** (<http://saa.lis.wisc.edu/concurrent-enrollment.htm>).

## COURSE LEVEL

Each L&S course and each approved non-L&S course that satisfies the L&S liberal arts and science (LAS) requirement have been evaluated for level:

- Elementary
- Intermediate
- Advanced

Course levels are indicated with each course listed in this Guide. **Only courses that indicate level after the course designation category for a course will count toward level in L&S for students.**

## CREDIT AND NO CREDIT COURSES

Some courses are designated as being offered on a Credit/No Credit basis. Credit/No Credit courses are designated in the Guide under Courses. The transcript for the course will indicate either CR (meaning the student earned credits for the course) or N (meaning the student did not earn any credit

for the class). Students may not take such courses on any other basis.

## CROSS-LISTED COURSES

Cross-listed courses are courses offered under more than one department heading. **Cross-listed courses (i.e., courses offered by more than one department) will be assigned the same number in each department in which it is offered (e.g., African 277 which is cross-listed with approximately five majors/departments).** The courses will carry identical L&S course attributes (breadth and level), will have the identical catalog descriptions in each listing, and will have identical course prerequisites. All cross-listed courses:

1. Must be approved by the University Curriculum Committee (**all** departments must submit a letter of support)
2. Must have the same Course Guide number (e.g., Biology 151, Botany 151, and Zoology 151)

Students completing two majors may count cross-listed courses (i.e., courses listed in both major departments) in partial satisfaction of the requirements for both majors. For more information, see [w \(<https://kb.wisc.edu/lis/page.php?id=21663>\)](https://kb.wisc.edu/lis/page.php?id=21663)hat is a cross-listed course? How is it different from a "meets-with" course? (<https://kb.wisc.edu/lis/page.php?id=21663>)

## DIRECTED OR INDEPENDENT STUDY

Directed/Independent Study offers the student an opportunity to work with a faculty member on an individual study program. A student who is stimulated by a particular concept or problem encountered in a course can pursue and develop that interest in depth through a Directed Study project. Such individualized study can make a valuable contribution to a student's educational experience.

- Directed/Independent Study courses **cannot** be used to fulfill any UW–Madison General Education Requirements (GER) (<http://www.lis.wisc.edu/gened>) or L&S breadth requirements (p. 312) under any circumstances.
- **Directed/Independent Study courses may not be taken on a pass/fail or audit basis.**
- **L&S undergraduates are not permitted to take graduate level directed study (courses numbered 799, 899, and 999) under any circumstance.**

Directed Study courses are made available by departments on the basis of a student's preparation and motivation and a faculty member's willingness to accept the student in such an endeavor. See L&S Undergraduate Directed/Independent Study Course Guidelines (<https://kb.wisc.edu/lis/page.php?id=20133>) for more detailed information.

Departments may offer Directed Study at the elementary, intermediate, or advanced level under the following course numbers:

- **198 or 199.** Directed Study courses numbered 198 or 199 have a credit range of 1 to 3 credits, are considered elementary level, and are intended for freshmen and sophomores, though, in exceptional

cases, juniors and seniors may be appropriately admitted if the nature of the course so allows.

- **298 or 299.** Directed Study courses numbered 298 or 299, including supervised reading in foreign languages and in subjects related to students' major fields, have a credit range of 1 to 3 credits and are considered intermediate level.
- **698 or 699.** Directed Study courses numbered 698 or 699 (and other courses with numbers ending in 98/99, between 398 and 699) have a credit range of 1 to 6 credits, are considered advanced level, and are offered primarily for juniors and seniors. However, in unusual cases, freshmen and sophomores with exceptional preparation and motivation may be admitted. At this level, it is a prerequisite to have had previous or concurrent exposure to the subject on an intermediate level.

Directed Study courses with a number ending in 98 (e.g., 198, 698) are carried on a Credit/No Credit (Cr/N) basis. No grades are awarded for these courses. The student earns credit for the course if the instructor is satisfied with the work the student has performed. If not, there is no Failure; the student simply is not awarded any credit for the course. Not all departments offer Directed Study courses on a Cr/N basis. Courses ending in 99 are graded. (See Grades and GPA ([https://registrar.wisc.edu/grades\\_and\\_gpa.htm](https://registrar.wisc.edu/grades_and_gpa.htm)) for more information)

Prior to registration and before the end of the second week of classes, students are responsible for making all arrangements with the faculty member who agrees to direct their work. The student and faculty member should prepare a study plan, determine the time and place for regular meetings, the number of credits to be earned, and how to enroll in the course.

#### Notes:

- Directed Study courses **do not** satisfy basic or breadth requirements. Thus, Directed Study courses **cannot** be used to fulfill any degree requirements such as B.A./B.S. Foreign Language, General Education Requirements (Comm A, Comm B, QR A, QR B, Ethnic Studies), or L&S Breadth (Humanities, Natural Science, Social Science).
- Directed Study courses may generally be repeated for credit if course content is not duplicated.
- **Undergraduate students cannot take or earn degree credit for graduate-level Directed Study, Independent Reading, Independent Study, or Individual Enrollment courses (e.g., 799, 899, 999).**
- All Directed Study courses (graded or not) count toward the maximum number of credits that may be counted in the major if taken in the major department.
- Many majors strictly limit the number of Directed Study credits that can be earned in the major.
- Directed Study courses are not intended as placeholder credits for registration purposes, and students with special rules for full-time status should consult the undergraduate deans before

enrolling in Directed Study courses after the enrollment period.

Directed Study courses taken in non-L&S departments may be counted as Liberal Arts and Science (C) courses provided that they are offered at the 300-or-above level. Because these experiences are intended to provide intensive, one-on-one experiences with faculty, departments are not allowed to use Directed Study courses to teach group instruction courses.

## DROP NOTATION

The Drop (DR) notation appears on students' records if they drop a class or classes after the last day to drop courses or withdraw without a DR or W grade notation appearing on students' transcripts. For the specific deadline for dropping classes so a DR will not appear on a student's records, see Deadlines at a Glance ([http://www.registrar.wisc.edu/spring\\_deadlines\\_at\\_a\\_glance.htm](http://www.registrar.wisc.edu/spring_deadlines_at_a_glance.htm)) on the Office of the Registrar website. Please note that L&S does not backdate drops to erase them from a student's academic records or extend the drop deadline so that the DR will not appear.

The drop notation will only show that a student has dropped a course(s) before the official drop deadline. A "DR" on a student's academic record does not have any negative implications for students when they are applying to graduate schools or seeking employment. The "DR" was instituted as a means to document when a course was dropped after the first eight days in the fall and spring semesters (or the appropriate period during the summer session or module courses).

## FOREIGN LANGUAGE

The study of a foreign language contributes in an important way to a broad education for today's students, who live in a world where the overwhelming majority of people do not speak or read English and where much of the knowledge that is disseminated may never appear in English. Knowledge of a foreign language is important for an appreciation of the culture of the people using that language, and it also helps students to understand the structure and complexities of their own native language. Students with sufficient preparation may be able to use the foreign language for study in their chosen discipline.

To be admitted to the University of Wisconsin–Madison, students must have completed the second-year level of a single foreign language (or American Sign Language) in high school. On extremely rare occasions, students may be admitted with a foreign language deficiency, but they will be required to make up that deficiency by the time they earn their 60th degree credit, or they will not be allowed to continue.

All students working for a B.A. or B.S. degree in the College of Letters & Science must fulfill the foreign language requirement. Students with certain disabilities may apply for a substitution to the foreign language requirement by submitting required documentation to the College Disabilities Curricular Accommodations Committee. (See foreign language substitution package (<http://saa.ls.wisc.edu/foreign-language-substitution-package.htm>). For more information, contact L&S Undergraduate Academic Deans'

Services, 608-262-0617, or the McBurney Disability Resource Center, 608-263-2741, TEXT: 608-225-7956.)

In meeting the foreign language requirement, students may combine high school and college work as appropriate. This will allow a student to make full use of high school work in more than one foreign language, or will facilitate the study of a second foreign language that may not have been available in high school. Students who have learned a foreign language in a nonacademic setting may meet the foreign language requirement by successfully completing the appropriate level language course at the university or by successfully completing an appropriate attainment examination.

#### Foreign language requirements for the B.A. and B.S. degrees differ.

For the **B.S. degree**, the foreign language requirement may be met by completion of the third level (unit) of a foreign language in high school, or the equivalent third-semester-level college work. For example, a student can satisfy the B.S. foreign language degree requirement if s/he has:

- completed 3 units (years) of one high school language (e.g., French, Spanish, etc.), **or**
- completed the 3rd semester of one college-level language (e.g., Scan 201, Slavic 207, Spanish 203, etc.)

For the **B.A. degree**, the foreign language requirement may be met in one of two ways: (1) completion of the fourth level (unit) in one language, **or** (2) completion of the third level (unit) in one language **and** completion of the second level (unit) in another language. For example, a student can satisfy the B.A. foreign language degree requirement if s/he:

- completed 4 units (years) of one high school language (e.g., French, German, etc.), **or**
- completed 2 units (years) of one high school language (e.g., Spanish) **and** the 3rd semester/level of a second foreign language (e.g., Italian 203) at the college level, **or**
- completed 3 units (years) of one high school language (e.g., Chinese) **and** the 2nd semester/level of a second foreign language (e.g., German) at the college level

Students who intend to enroll in a foreign language in which they have had previous noncollege instruction must take the UW System placement test in that language.

#### Notes:

- Students proficient in an American Indian language may be able to use this language to satisfy the foreign language requirement. The American Indian Language Committee will make arrangements to test and/or certify a student's level of proficiency. Students should contact an L&S academic dean for further information.
- Students may take an examination to meet all, or part of, the college foreign language requirement in languages not taught on this campus only if

there is a current UW–Madison faculty member qualified to administer and evaluate an examination to determine a student's competence in the language and level of proficiency. **(The UW–Madison faculty member's department must also support and endorse the administering of this special examination.)** No degree credits are earned for this examination, but level of proficiency established will be accepted toward the foreign language requirement.

- Some languages (e.g., American Sign Language) are taught only through the second semester at UW–Madison. Students may, however, count UW–Madison approved transfer courses beyond this level toward the foreign language requirement and/or satisfy the foreign language requirement by examination in these languages. Substitutions to the foreign language requirement are available for L&S students with certain disabilities that make a course substitution appropriate. ***Extensive and very specific documentation is required from students and disability specialists if individuals wish to be considered for an L&S foreign language substitution package.***

## GRADUATE COURSES

All courses numbered 700 and above are graduate courses and considered advanced (A). **Enrollment in these courses is strictly limited to *only* graduate-level students. L&S undergraduates who, on the rare occasion, are permitted to enroll in graduate level courses and receive passing grades in these classes will be awarded undergraduate degree credit.**

- L&S students who receive permission to enroll in L&S graduate courses may count those credits toward completion of their Liberal Arts and Sciences credit requirement. These credits may be used to satisfy the requirements related to mastery of intermediate/advanced level work, but since these courses do not carry breadth designations, they **do not** satisfy breadth requirements.
- Graduate-level courses **cannot** be used as required coursework for a student's undergraduate major or degree requirements.
- L&S students who enroll in **non-L&S** graduate courses may count those credits as part of their free electives in the degree. **These credits may not be used to satisfy breadth or level requirements.**
- Grades earned by undergraduates who complete graduate courses will be included in all relevant grade point average calculations (see Quality of Work Requirements (p. 311) for the list of areas in which these averages are calculated). Most graduate courses restrict enrollment to students who have graduate standing, or who have received the instructor's consent to enroll.
- Students can count up to seven (7) credits of graduate-level coursework earned as an undergraduate toward future graduate studies.
- **Undergraduate students cannot take or earn degree credit for graduate-level Directed Study, Independent Reading, Independent Study, or Individual Enrollment courses (e.g., 799, 899, 999).**

Provided that an instructor wishes to allow undergraduates to enroll in a graduate course, students who wish to enroll in the courses should meet with the instructor, who can evaluate whether or not the student should be allowed to register. This decision is made at the instructor's discretion, based on such considerations as whether or not the student has met course prerequisites, is prepared to perform graduate-level work in the course, and is likely to successfully complete the course. Instructors are not obligated to accommodate undergraduate student requests to enroll in graduate-level courses. Furthermore, it should be noted that all students in graduate-level courses are expected to be held to a similar performance standard with respect to quality, quantity, and type of work performed.

## HISTORICAL COURSE DESIGNATIONS AND BREADTH REQUIREMENTS

All L&S undergraduate students are required to fulfill the L&S Breadth of Exploration in the Liberal Arts and Sciences. The L&S Breadth includes:

- Humanities: 12 credits (of which 6 credits **must** be Literature credit)
- Social Science: 12 credits
- Natural Science: 12 credits

**NOTE: Although all L&S undergraduates must complete a minimum of 12 natural science credits in order to graduate, there are differences between the B.A. and B.S. natural science breadth requirement.**

**Bachelor of Arts (B.A.)** candidates must complete a minimum of **one (1)** 3-credit Biological Science course **and one (1)** 3-credit Physical Science course. The additional 6 credits can be any combination of natural, biological or physical science credits to bring the total to 12 credits.

**Bachelor of Science (B.S.)** candidates must complete a minimum of 6 credits of Physical Science **and** 6 credits of Biological Science.

Only those courses that have **both** a specific Breadth designation and "C" in the "L&S Credit Type" section of the former Course Guide (<http://public.my.wisc.edu>) under **Additional Info** or in the current Guide (<http://guide.wisc.edu/courses>) with breadth in the course designation section count toward the breadth requirement. The following types of courses **do not** count toward the breadth requirement:

- elementary-level courses in mathematics
- elementary- and intermediate-level courses in foreign language or courses in conversation and composition in a foreign language
- English composition
- directed study/independent study courses
- practical and skill courses such as elementary-level courses in journalism, public speaking, acting, and theater production; courses in art; and courses in music performance

### • free elective coursework

The following types of courses are inappropriate for satisfying the breadth requirement, and so lack breadth designation:

- courses that are highly specialized or narrowly pre-professional in nature; and
- internships, practicums, directed study, tutorials, senior theses, and other courses whose content is negotiated between students and faculty on an individual basis.

Courses designated as Natural Science (N) partially satisfy the natural science requirement but not the specific physical or biological sciences course requirements. **If a course can meet more than one breadth designation, students may select the division in which they want that course to count for purposes of the breadth requirement; however, the course may be counted only once and in only one division.**

The following is a list of symbols located in the "geBLC" column of the former *Timetable*, the UW–Madison Transfer Equivalency Database (TED) (<http://www.admissions.wisc.edu/transfer/ted>), and the Transfer Information System (TIS) (<http://tis.uwsa.edu>). These symbols are still used to designate course attributes in L&S. The symbols are as follows:

Letters in the "g" column (or the Gen Ed designation in the "Gen-Ed" section of the *Course Guide* under **Additional Info**) identify a course which counts toward either the Communication requirement or the Quantitative Reasoning requirement for general education as follows:

- a—course counts toward the Communication Part A requirement.
- b—course counts toward the Communication Part B requirement.
- q—course counts toward the Quantitative Reasoning Part A requirement.
- r—course counts toward the Quantitative Reasoning Part B requirement.

The symbol "e" in the "e" column (or "yes" in the "Ethnic" section of the *Course Guide* under **Additional Info**) identifies a course that counts toward the L&S Ethnic Studies requirement.

Symbols in the "B" column (or the breadth designation in the "Breadth" section of the *Course Guide* under **Additional Info**) show how courses count in meeting the breadth requirement for the L&S B.A./B.S. degrees.

- B—Biological Science. Counts toward the Natural Science requirement.
- H—Humanities
- I—Interdivisional. Does not satisfy any breadth requirement
- L—Literature. Counts toward the Humanities requirement
- N—Natural Science. Satisfies the Natural Science requirement but not the Biological or Physical Science requirements
- P—Physical Science. Counts toward the Natural Science requirement



S—Social Science  
 W—Either Social Science or Natural Science  
 X—Either Humanities or Natural Science  
 Y—Either Biological Sciences or Social Science  
 Z—Either Humanities or Social Science

Symbols in the "L" column (or the level designation in the "Level" section of the *Course Guide* under **Additional Info**) show course level. Sixty credits of advanced and intermediate level courses are required for the L&S B.A./B.S. degrees.

E—Elementary  
 I—Intermediate  
 A—Advanced  
 D—Intermediate or Advanced

Symbols in the "C" column are:

C—courses which count for degree credit in L&S and which count as part of the 100 credits in L&S for students under the 1971 degree requirements or for the 108 Liberal Arts and Science (LAS) credits for students under BABS07.

#### Course Level

Each L&S course and each approved non-L&S course have been evaluated for level:

- Elementary (E),
- Intermediate (I),
- Advanced (A), or
- Intermediate/Advanced (D).

Course levels are indicated with each course listed in the Guide (<http://guide.wisc.edu/courses>) that also count for L&S Liberal Arts and Science credit. **Only courses that are designated as counting as Liberal Arts and Science credit in the Guide are able to count toward level in L&S for students.**

## INTERNATIONAL STUDENTS AND NON-NATIVE SPEAKERS OF ENGLISH TAKING ENGLISH AS A SECOND LANGUAGE COURSES (ESL)

### English as a Second Language

Students for whom English is a second language must have a facility in English adequate for university work. Results of the ESL assessment test may require students to take one or more English as a Second Language courses.

An undergraduate non-native speaker of English tested and assigned to courses in English as a Second Language satisfies the General Education Communication Part A requirement through successful completion of ESL 118. Courses numbered ESL 110, 114, 115, 116, 117, and 343 do not carry degree credit in Letters & Science. Students may, however, be eligible to receive a total of 6 degree credits for English as a Second Language coursework only after successful completion of ESL 118.

Students transferring credit for English composition from another university are not eligible to receive any degree credit for English as a Second Language coursework carried after successful completion of ESL 118.

## Degree Requirements

In general, international students must complete the same degree requirements as any other entering student. The College of Letters & Science makes some exceptions to this policy. For instance the College may waive the foreign language requirement for the B.A. and B.S. degrees for students who are native speakers of a foreign language.

For the purpose of exemption from the foreign language requirement, a "native speaker" is a student who graduates from or completes a major portion (the equivalent of at least five semesters) of a secondary school in a non-English-speaking school system. Exemption is not automatic. Students who believe they may qualify for an exemption should contact the Office of Admissions and Recruitment or an L&S academic dean to determine how their language background may be applicable toward the foreign language requirement.

**Students whose native language is not English may not receive degree credit for work in their native language through Credit by Examination except for literature credit.**

## Special Advisor

International students can receive advising information from their department advisors.

The Office of International Student Services (<http://iss.wisc.edu>) (716 Langdon Street, Room 217 Red Gym, 608-262-2044; [iss@studentlife.wisc.edu](mailto:iss@studentlife.wisc.edu)) can also offer assistance and advising in non-curricular matters such as visa-related issues.

## LIBERAL ARTS AND SCIENCE COURSES

Courses that have been approved as Liberal Arts and Science (LAS) classes are expected to encourage students in one or more of the three "habits of the mind" of liberal arts education, as specified by the College of Letters & Science. These include:

1. Skilled written and verbal communication, excelling in formulating and expressing a point of view, reflecting and questioning current knowledge through reading, research and consideration of the views of others.
2. The ability to draw flexibly upon and apply the modes of thought of the major areas of knowledge.
3. Knowledge of our basic cultural heritage as a multifaceted and often contested history.

For more detailed information, refer to criteria for Liberal Arts and Science Courses (<https://kb.wisc.edu/lis/page.php?id=43819>).

The College of Letters & Science has long recognized that courses offered by other units of the university provide valuable and appropriate learning experiences for students pursuing a degree offered by the college. The college has approved many of these courses for L&S students to take for degree credit, and after careful review, has determined that these courses are *Liberal Arts and Sciences* courses. These courses are so designated within the Guide (<http://>

guide.wisc.edu/courses) and count toward the L&S degree requirements, including requirements related to breadth and level.

## PASS/FAIL

Any L&S undergraduate student in good academic standing is eligible to take **one** course per term/semester on a pass/fail (S/U) basis. *For the College of Letters & Science, good academic standing means that a student does not have one of the following statuses:*

- probation
- strict probation
- continued probation
- continued strict probation
- dropped status

For information about probation, see academic probation and drop (p. 20).

- **Undergraduates may carry only one course on a pass/fail basis per term (fall, spring, summer) and a maximum of sixteen (16) credits during their entire undergraduate career.**
- First-semester freshmen and transfer students without an established UW–Madison GPA are eligible to take **one (1)** course for pass/fail in their first term at UW–Madison.
- Summer sessions collectively count as a single term. Thus, a student can only take **one (1)** course on a pass/fail basis during the summer.

Any student who takes a pass/fail course must earn at least a C to receive credit for the course. Final grades for these courses will be indicated as satisfactory (S) or unsatisfactory (U) without any computation of grade points for those courses into the semester or cumulative grade point average. The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U will be recorded by the Registrar's Office in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade point average. The pass/fail option is the student's choice and the instructor reports the grade without knowing whether or not the student is taking the course on a pass/fail basis.

For more information, see What does it mean to take a course pass/fail? (<https://kb.wisc.edu/lis/page.php?id=21102>)

### Notes:

- Students must submit (or cancel) pass/fail requests via their Student Center link (<https://login.wisc.edu/?appurl=my.wisc.edu/portal>) by the end of the fourth week of fall and spring semesters. (For modular and summer session courses, pass/fail requests must be submitted by the Friday of the week in which the session is one-fourth completed).
- Students **may not** cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms.

- All requests to add or cancel pass/fail must be submitted via the Course Change request in the Student Center by the appropriate deadline.
- For more information about the pass/fail process, refer to what does it mean to take a course pass/fail (<http://kb.wisc.edu/lis/page.php?id=21102>) and Pass/Fail Option ([http://registrar.wisc.edu/pass\\_fail\\_option.htm](http://registrar.wisc.edu/pass_fail_option.htm)).
- **Students cannot cancel a pass/fail request after the deadline if they need the course to fulfill a major or degree requirement at a later date. It is the student's responsibility to determine whether or not s/he can take a course on a pass/fail basis.**
- Pass/Fail and Course Change Requests can be accessed through a student's Student Center in My UW (<http://my.wisc.edu>) by clicking Course Change Request via Course Enrollment, Term Information. For more information about requesting the pass/fail option, refer to Pass/Fail Option ([http://registrar.wisc.edu/pass\\_fail\\_option.htm](http://registrar.wisc.edu/pass_fail_option.htm)) on the Registrar's website.
- **Only elective work may be carried on a pass/fail basis.** Thus, pass/fail **cannot** be declared or used to fulfill the following requirements:
  - Breadth (humanities, literature, social science, natural science)
  - Foreign language (prior to fulfilling the B.A. or B.S. foreign language requirement)
  - Math
  - Ethnic Studies
  - General Education Requirements (Comm A, Comm B, QR A, QR B)
  - Major requirements
- L&S undergraduates may take courses in their major or major department for pass/fail. **However, any coursework taken for pass/fail in the major or major department will not count toward fulfilling any requirements.** Students are strongly encouraged not to take coursework in their major program without first consulting with their undergraduate advisor.
- Courses carried on a pass/fail basis **cannot** fulfill any other college requirements except for the 60 intermediate/advanced level credits and 108 Liberal Arts and Science (LAS) credits needed to graduate.
- **Directed Study courses may not be taken on a pass/fail basis.**
- Pass/fail work **may not** be used as part of the coursework offered in satisfaction of the individual major.
- **Students may not take foreign language courses on a pass/fail basis until the foreign language requirement for their degree program has been satisfied.**
- **Students pursuing certificate programs should check with the certificate advisor(s) about policies concerning pass/fail for certificate program courses since many certificate programs do not allow coursework to be taken for pass/fail.**

For further information, deadline dates, and instructions for registration stop by the College of Letters & Science Academic Deans' Services in Suite 110 Ingraham Hall, 1155 Observatory Drive, or call 608-262-0617 for more assistance.

## PRE-PROFESSIONAL COURSES

### Pre-Medicine is not a major

College of Letters & Science students who wish to prepare for a career in medicine should enroll in courses which lead to completion of degree requirements in any major and simultaneously fulfill the pre-medical requirements of the medical school of their choice. Students considering a pre-medical program should go to the Center for Pre-Health Advising where they will receive information and advice as needed. See Center for Pre-Health Advising (<http://www.prehealth.wisc.edu>) for more information.

See coursework (<https://prehealth.wisc.edu/coursework-medicine>) for information about courses that support the required and suggested coursework for medical school. Students should keep in mind that this is a general guideline and requirements differ among medical schools.

- *UW–Madison School of Medicine and Public Health (SMPH)*, prerequisites can be found at MD Program Admissions (<http://www.med.wisc.edu/education/md/admissions/premedical-requirements/110>).
- *For students planning to take the MCAT*, see frequently asked questions (FAQ) (<http://www.med.wisc.edu/education/md/admissions/frequently-asked-questions-faqs/108>) at MD Program Admissions for an academic planning guide.

### Pre-Law

Pre-law is **not** a major at UW–Madison. For more information for students who are considering, preparing for, or applying to law school, please refer to the Center for Pre-Law Advising (<https://prelaw.wisc.edu>) for more information.

### Pre-Veterinary Medicine

Pre-veterinary medicine is **not** a major at UW–Madison. Students interested in pursuing a career in veterinary medicine are encouraged to choose a major of interest that can be pursued simultaneously while completing the 60 credits of required coursework. Students may select an academic major in any school or college to be eligible for admission. One major does not have an advantage over another with respect to admission to veterinary school. For more information about pre-veterinary medicine and planning coursework, contact the Academic Affairs Office, School of Veterinary Medicine, Room 2268, 2015 Linden Drive, 263-2525, or the College of Agricultural and Life Sciences, Room 116 Agricultural Hall.

## PREREQUISITE COURSEWORK BACKGROUND

The College of Letters & Science recognizes that some courses that meet general degree requirements (e.g., language, math, ESL) require prior knowledge in that

subject. For purposes of distinguishing between necessary prerequisites and electives, coursework that is regarded as prerequisite to courses meeting general degree requirements is considered "necessary" and not purely elective.

## REGISTRATION CHANGES

Students may make changes in their registration (add and/or drop courses, change sections in a course, or change the number of credits in a course) via their Student Center in My UW according to the deadlines published by the Office of the Registrar ([http://www.registrar.wisc.edu/schedule\\_of\\_classes.htm](http://www.registrar.wisc.edu/schedule_of_classes.htm)) each semester and summer session. For more specific information about this process, please refer to Course Change Request ([http://registrar.wisc.edu/course\\_change\\_request.htm](http://registrar.wisc.edu/course_change_request.htm)). **Students are strongly encouraged to check their current registration and verify they are properly enrolled in the correct courses using My UW** (<http://my.wisc.edu>). For general questions about this process, contact your undergraduate advisor or L&S Undergraduate Academic Deans' Services at 608-262-0617.

Students who enroll for a course must either complete the course or drop it by the deadline for dropping courses.

## REPEAT OF COLLEGE COURSES NOT FOR CREDIT (RETAKING PASSED COLLEGE-LEVEL COURSES ON A REFRESHER BASIS)

Credit will not be granted for the same course twice. Students who wish to refresh their knowledge may repeat courses, but not for credit. All instances of that course will calculate in the semester GPA and in the university cumulative GPA. Repeated courses **do not** calculate in L&S requirements for quality of work (p. 311) (GPA minimums for Intermediate/Advanced work and GPA requirements in the major).

Credits carried on a refresher basis count toward the maximum credits permitted each term. Grades in refresher-basis courses count only in the university grade point average, which may be significant in determining a student's probationary status and eligibility to continue. **Repeating a course will not remove the prior grade(s) earned for that course from the student's record.** Please refer to is it possible to retake a course that I have already passed or received degree credit for (<https://kb.wisc.edu/lis/page.php?id=21934>).

Transfer students must be particularly careful to avoid taking courses on the Madison campus that duplicate courses taken at another institution. Credit will not be given twice for the same or similar courses, nor will credit be given for a lower level course in a sequence if students have already received credit for a higher level course in that sequence (e.g., a student who has received credit for Math 221 could not take Math 112 for credit). Students should carefully check the Evaluation of Transfer Credits prepared by the Office of Admissions and Recruitment and should consult an advisor or academic dean before enrolling.

First-year students (freshmen) should also be mindful of the fact that they will not receive credit again for any course(s) they have already received credit for via AP or college courses they took during high school and transferred to UW–Madison.

## REPEAT OF HIGH SCHOOL OR COLLEGE COURSEWORK FOR CREDIT

Students who enter the College of Letters & Science with degree credit for academic work will not receive additional degree credit for repeating that course, for taking an equivalent course, or for taking a lower-level course in a sequence after completing a higher course in that sequence (e.g., a student who has received credit for Math 221 could not take Math 112 for credit). See *i* (<https://kb.wisc.edu/lis/page.php?id=21934>) is it possible to retake a course that I have already passed or received degree credit (<https://kb.wisc.edu/lis/page.php?id=21934>) for more information.

## WITHDRAWAL

Withdrawal from school means dropping all courses currently in progress for the term in which the withdrawal is processed. Before the first day of classes in a term, students may remove themselves from classes by dropping **all** of their courses via My UW–Madison. Detailed information about the withdrawal process for L&S undergraduates can be found at withdrawing from semester/term (<http://saa.ls.wisc.edu/policies-withdrawal.htm>).

After the first day of classes and through the withdrawal deadline published in the Deadlines at a Glance section on the registrar's website (Office of the Registrar (<http://registrar.wisc.edu>)), L&S undergraduate students may cancel their enrollment (withdraw from the term) by going to their Student Center in My UW and accessing the Term Withdrawal tab under Course Enrollment. For more detailed information, refer to canceling your enrollment -withdrawals ([https://registrar.wisc.edu/canceling\\_your\\_enrollment\\_withdrawal\\_info.htm](https://registrar.wisc.edu/canceling_your_enrollment_withdrawal_info.htm)). Additional information about the withdrawal process can be found at what does it mean if I withdraw from the term (<https://kb.wisc.edu/lis/page.php?id=21703>).

Students who find it necessary may withdraw at any time during the first 12 weeks of a semester without needing special permission to return for a later term. Summer deadlines for withdrawal are published in the summer by the Office of the Registrar (<http://registrar.wisc.edu>). Students are encouraged to confer with a dean regarding the possible effects of withdrawal upon their academic work.

Students who have neglected their classes, or who have earned unsatisfactory grades, or who have a pattern of withdrawals may need permission of an academic dean to return at a later date.

Letters & Science undergraduate students wishing to withdraw **after** the deadline **must** obtain permission from an academic dean by setting up an individual appointment through L&S Undergraduate Academic Deans' Services (608-262-0617). Failure to obtain this permission results in the recording of Failures for all courses.

## CREDITS

### CREDIT LOAD

**Full-time student status (12–18 credits).** The usual study load of a student is about 15 credits per

semester/term, with an ordinary range of 12 to 18 credits. *Please note that international students and athletes must be enrolled for a minimum of 12 credits in the fall and spring semesters/terms.* For more information, please contact International Student Services (<http://www.iss.wisc.edu>) (608-262-2044) or the Fetzer Student Athlete Academic Center (<http://www.uwbadgers.com/facilities/fetzer-center.html>)(608-262-1787).

- For students receiving financial aid, federal regulations require any student receiving financial assistance to maintain academic progress and be working toward a degree. See satisfactory academic progress (SAP) (<http://www.finaid.wisc.edu/259.htm>) for more details.

**Light load (fewer than 12 credits).** A program of fewer than 12 credits may be carried **without** the specific authorization of an academic dean. However, students are encouraged to consult their undergraduate advisor or an academic dean regarding the decision to carry a light load. A light load may affect a student's eligibility for financial aid (including Social Security and Veterans' benefits), dependent health insurance, international student visa status, University Housing accommodations, or athletic eligibility. Several terms with a courseload of fewer than 12 credits will also have an impact on a student's graduation program.

**Heavy load (19 or 20 credits).** Students who have a cumulative GPA of 3.000 or better at the University of Wisconsin–Madison may enroll for 19 or 20 credits during the fall or spring term with permission from an academic dean in L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/credit-overload.htm>). *Additional fees per credit are assessed for all credits above 18. Under no circumstances may a student carry more than 20 credits in one semester.*

- See credit overload/heavy program (<https://kb.wisc.edu/lis/page.php?id=21177>) for more information.
- L&S students who wish to take an overload and qualify to take 19 or 20 credits should fill out the Credit Overload Request (<http://saa.ls.wisc.edu/credit-overload.htm>). For more assistance, please stop by 110 Ingraham Hall, or call 608-262-0617 during regular business hours.

**Summer Sessions Credit Load (a maximum of 12 credits).** In general a student may carry one (1) credit per week of instruction during the summer session. The overall limit for summer work is 12 credits (or 13 with special permission). The credit limit per summer session is the number of weeks of the session. Thus, a student can earn only 3 credits in a 3-week summer session. A student needs permission from an academic dean to carry one (1) additional credit per weeks in a session (e.g., four (4) credits in a 3-week session). An academic dean's permission usually requires a 3.000 cumulative GPA.

Students must carry courses for the number of credits assigned to the courses in the Guide (<http://guide.wisc.edu/courses>).

For more information regarding credit load, see what is the common credit load for L&S undergraduate students during the semester (<https://kb.wisc.edu/lis/page.php?id=26734>).

## CREDIT BY COURSE EXAMINATION/RETROACTIVE CREDITS ( RETROCREDITS)

**Note: Not all courses in language departments carry eligibility for retroactive credit (retrocredits). Students should contact the specific language department to verify which courses qualify for earning retrocredits.**

The College of Letters & Science will award degree credit for foreign language work successfully completed in high school under certain circumstances **and** if an additional foreign language course is taken **at UW–Madison**. In no case can a student earn retroactive credits simply by taking a placement test or other exam. A student must take the appropriate UW–Madison language class at UW–Madison to earn retroactive credits.

Students who qualify for retrocredits after completing the appropriate language course on the UW–Madison campus will automatically receive retrocredits approximately two to three months after all grades have been posted for all students. This benefit is available to freshmen (first-year students), and can be exercised when the following conditions are met:

- **The course must be a student's first course at the college level in the language.** This does not include college-level coursework taken during high school, but does include courses transferred from another institution where a student was working towards an undergraduate degree.
- **The course must be designated appropriate for earning retroactive credits by the department.** Not all courses offered by a department of language and literature are eligible—please see below for details.
- **A student must take the course before he/she has earned 30 degree credits.** This **does not** include AP, CLEP, IB, or other college credit earned in high school, nor does it include retroactive credits earned in another language. It **does** include courses transferred from another institution where you were working toward a degree.
- **A student must earn a B or better in the class.**

If a student meets all of the conditions listed above, retroactive credits should appear automatically on a student's transcript by the beginning of the following semester (e.g., if the language was completed in the fall term, the retroactive credits should appear on a student's record by the beginning of the spring term). If retroactive credits do not appear on a qualified student's records by the end of the **fourth** week of the following term, the student should fill out a Retroactive Language Request Form (<http://languages.wisc.edu/sites/default/files/docs/RETROACTIVE%20LANGUAGE%20CREDIT%20REQUEST%20FORM.pdf>) and submit that form to the office of the academic dean at the student's particular school or college. For students earning an undergraduate degree in the College of Letters & Science, the form should be delivered to L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>). Non-L&S degree-seeking candidates should speak with the undergraduate

academic service unit in the school or college for more guidance.

- Retroactive credits (retrocredits) **will not** automatically be posted for students who have already earned retrocredits. If a student is still eligible to earn retrocredits and wishes to receive retrocredits for another language(s), the student will need to fill out the Retroactive Language Request Form (<http://languages.wisc.edu/sites/default/files/docs/RETROACTIVE%20LANGUAGE%20CREDIT%20REQUEST%20FORM.pdf>) and deliver it to the L&S Academic Deans' Services Office in 110 Ingraham Hall if the student is an L&S undergraduate. For further information, contact L&S Academic Deans' Services at 608-262-0617.

### Please note:

- **Native speakers of a language are not eligible to earn retroactive credits in that language.**
- Students can earn retrocredits in more than one language as long as they are within the 29-credit limit and meet the other requirements listed above to earn retrocredits.
  - Retroactive credits (retrocredits) will not be posted automatically for students who have already earned retrocredits. If students are still eligible to earn retrocredits and wishes to receive retrocredits for another language(s), they will need to fill out the Retroactive Language Credit Request Form (<http://languages.wisc.edu/sites/default/files/docs/RETROACTIVE%20LANGUAGE%20CREDIT%20REQUEST%20FORM.pdf>) and deliver it to L&S Undergraduate Academic Deans' Services in 110 Ingraham Hall to be reviewed if they are an L&S undergraduate student.
- Retrocredits can only be earned for the first four semesters/terms of a language sequence. For example, a student who tests into Spanish 311 can earn a maximum of sixteen retrocredits (Spanish 101, 102, 203, and 204). The maximum number of credits earned will be impacted if the student already has AP credits for a particular course.
- The maximum number of credits a student can earn for retrocredits may vary based on the language sequence and the number of credits offered in that particular language sequence for the first four semesters. For example, a student who places into E Asian 204 (Fourth Semester Japanese) for 6 credits is eligible to earn 18 retrocredits (E Asian 103, 104, and 203) since each of these classes are worth 6 credits each.
- UW–Madison will honor retroactive credits earned at another institution provided that these credits were earned according to UW–Madison policy. Student will need to work with the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/apply/freshman/apib.php>) at UW–Madison to make

sure the retrocredits from the other institution get posted to their official UW–Madison records.

For more information about retroactive credits, refer to Retroactive Credits (<http://languages.wisc.edu/advising/retro>) and is it possible for an L&S undergraduate to earn retrocredits (<https://kb.wisc.edu/lis/page.php?id=23736>).

## CREDIT BY DEPARTMENTAL EXAMINATION

The College of Letters & Science allows degree credit, as well as placement credit, for the mastery of some L&S coursework as demonstrated by appropriate achievement tests. The intent of these examinations is to increase opportunities for obtaining degree credit for college-level work done in high school or elsewhere.

Credit may be earned on the basis of an examination given by a department when a student has demonstrated possession of knowledge equivalent to what would be learned in a specific course taught in that department. The credit given is for knowledge possessed by the student regardless of where they have gained that knowledge. Examinations for credit must be administered as soon as possible, but in any case before the end of the student's first semester in residence following the experience that provided the knowledge to be tested.

Any department wishing to do so may give degree credit by examination for any of its elementary- or intermediate-level courses other than Honors courses and Directed Study.

Students who wish to establish credit by department examination must take a separate examination for each course in which credit is sought.

Departments will indicate which, if any, of their courses covering work that may have been taken in high school may permit degree credit on the basis of appropriate national tests taken in high school. In addition, general degree and specific subject credit may be obtained by examination under the College Level Examination Program (CLEP). (See College-Level Examination Program (p. 8).)

In no case may students receive degree credit more than once for the same college-level work. If degree credit is obtained for a given course by taking an examination, the student may not enroll in the course for degree credit, and vice versa.

Credits earned by examination **do not** count toward the residence requirement. Students are encouraged to take departmental examinations for credit prior to earning 90 degree credits (including the semester in which the 90th credit is earned) in order to avoid complications with the residence requirement. It is possible for students to fulfill all or part of the college foreign language requirement without receiving credit.

The provision for credits by examination offers students an opportunity to complete the baccalaureate degree requirements in less than four years should they so desire. Students wishing to take examinations to earn credit should contact the department office.

## FREE ELECTIVES

If a student so chooses, he or she may count for degree credit up to 12 credits "freely chosen" from many non-L&S, UW–Madison-approved courses. These courses are referred to as "free electives in the degree." These courses may be selected from any UW–Madison subject listing in the Guide (<http://guide.wisc.edu/courses>), and are not designated as courses in the Liberal Arts and Sciences. Thus, these courses **do not** carry breadth or level in L&S.

**Credit earned in these courses apply to the degree requirements in the following ways:**

- Courses taken as free electives in the degree may be carried and will appear on the transcript showing credits, grade, and grade points.
- These credits will count as part of the semester load and will count toward satisfaction of the minimum progress requirements.
- These credits and grade points will be included in calculating a student's semester and cumulative grade point average.
- Free electives in the degree **cannot** be used to satisfy the L&S requirement that students complete a substantial portion of their degree credits in intermediate and advanced work.
- Courses that are taught in L&S departments but not designated as Liberal Arts and Science courses (e.g., Music and Music Performance courses numbered 099 and below) may be counted for credit as free electives in the degree. (For B.A./B.S. Music majors, Music and Music Performance courses numbered 099 and below that are not required for the major may be counted as free electives.) Students with questions regarding a particular course offered by a school or college outside L&S as it relates to the requirement to complete 108 Liberal Arts and Science credits should consult an academic dean before registration.

## NON-DEGREE-GRANTING ACCREDITED INSTITUTIONS' TRANSFER CREDIT LIMITATION

Of the credits required for graduation, not more than 72 may be carried at non-degree-granting accredited institutions. However, of the last 60 credits earned before graduation, not more than 12 may be carried at these non-degree-granting accredited institutions.

## NON-L&S COURSES AND L&S DEGREE CREDIT

### Liberal Arts and Science Courses

The College of Letters & Science has long recognized that courses offered by other units of the university provide valuable and appropriate learning experiences for students pursuing a degree offered by the college. The college has approved many of these courses for L&S students to take for degree credit, and after careful review, has determined that these courses are *Liberal Arts and Sciences (LAS)* courses. These courses are designated as such in the Guide (<http://guide.wisc.edu/courses>). LAS courses count toward the L&S degree

requirements, including requirements related to breadth and level.

### Non-L&S Courses Cross-listed with L&S Departments

A course offered in the College of Letters & Science that carries the C designation and which is crosslisted with a department in another school or college is considered a Liberal Arts and Science course. Such courses are designated as counting for Liberal Arts and Science (LAS) credit in L&S within the Guide (<http://guide.wisc.edu/courses>). As LAS courses, they may be counted as part of the major and count as part of the 108 Liberal Arts and Science credits required for an L&S degree.

### Non-L&S Courses Required for L&S Majors

Courses taught in departments located in schools or colleges other than L&S, but which are required for completion of an L&S major, are considered Liberal Arts and Science courses. Such courses will *either* designated as Liberal Arts and Science courses in the Guide (<http://guide.wisc.edu/courses>), or their Liberal Arts and Sciences status will appear in the DARS degree audit. In both cases, these courses count as part of the 108 L&S credits required for a degree.

### Free Electives in the Degree

If a student so chooses, he or she may count for degree credit up to 12 credits "freely chosen" from many non-L&S, UW–Madison-approved courses. These courses are referred to as "free electives in the degree." These courses may be selected from any UW–Madison subject listing in the Guide (<http://guide.wisc.edu/courses>), and are not designated as courses in the Liberal Arts and Sciences. Also refer to free electives (<https://kb.wisc.edu/lis/page.php?id=23921>).

## DEGREES

### ASSOCIATE DEGREE POLICY

Effective summer/fall 2012, all new transfer students with an associate's degree from either a UW System (UWS) institution or one of the Wisconsin Technical College System (WTCS) schools that award a liberal arts associate's degree (i.e., Madison College, MATC–Milwaukee, Nicolet, Chippewa Valley, Western) will have their University General Education (UGER) (p. 17) breadth requirements satisfied in all undergraduate schools/colleges on the UW–Madison campus. Students pursuing their undergraduate degrees in the College of Letters & Science *may* need to take additional coursework to fulfill the L&S breadth requirements (p. 312). Students should consult with their undergraduate advisor(s) if they have additional questions.

WTCS transfer students should be aware that only liberal arts associate's degrees that are approved by **both** WTCS and UW System Administration are eligible for this provision. Students with associate degrees in technical fields will not have their UGER breadth requirements satisfied.

UWS and WTCS transfer students with a qualifying liberal arts associate's degree are EXEMPT from meeting the following **University General Education Breadth** requirements:

- Natural Science—two (2) courses for a total of 6 credits
- Humanities/Literature/Arts—6 credits
- Social Studies—3 credits

Students will still be required to meet other University General Education Requirements (p. 17).

#### Please note:

- Students in the College of Letters & Science must meet the L&S breadth requirements (p. 312) with specific transfer courses or courses taken in residence.

## DEGREE AND DIPLOMA INFORMATION

The College of Letters & Science offers the following degrees:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music\*
- Bachelor of Arts–Journalism\*
- Bachelor of Science–Journalism\*
- Bachelor of Social Work
- Bachelor of Science–Applied Mathematics, Engineering and Physics\*

\*These specialized degree programs have requirements for completion distinct from the L&S BA/BS requirements. Students who complete these requirements are awarded these degrees in lieu of the general Bachelor of Arts or Bachelor of Science. More L&S degree information is available at Degrees/Majors/Certificate (p. 286).

**A UW–Madison undergraduate diploma lists only the degree title.** Diplomas *do not* list major(s) or certificate(s) students complete as undergraduates. Major and certificate information is located on a student's official UW–Madison transcript.

- If a student is completing a bachelor of science degree with majors in history and economics, the degree on the student's diploma will be **Bachelor of Science**.
- If a student is completing a bachelor of arts degree, majoring in psychology and journalism, the degree on the student's diploma will be **Bachelor of Arts–Journalism**.

## SECOND UNDERGRADUATE DEGREE

**Students are not permitted to earn two undergraduate liberal arts degrees.** Students interested in earning a second undergraduate degree must consult an academic dean in the College of Letters & Science Academic Deans' Services (608-262-0617; Suite 110 Ingraham Hall, 1155 Observatory Drive).

**Please note that students who already have a Bachelor of Arts or Bachelor of Science degree in general are not able to earn another B.A. or B.S. since two-thirds of their coursework for the second degree will be the same.** Thus, a student who has a liberal arts degree with a science major is usually not considered a likely candidate for a second degree in the College of Letters & Science if the student wants to come back to do a second liberal arts degree in another humanities, social science, or natural science major. Students who have earned a music degree (MUS), for example, might be able to earn a B.A. or B.S..

Students admitted as candidates for a second undergraduate degree are subject to the L&S Academic Probation and Drop system. Requirements for admission to candidacy for a second degree are:

1. An undergraduate degree earned at UW–Madison or elsewhere. **The second degree must be substantially different from the first degree.** In other words, a student who has a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree **would not** be able to earn another B.A. or B.S. degree. Thus a student who already has a liberal arts degree with a liberal arts major such as Chemistry or History is not considered a likely candidate for a second liberal arts degree in the College of Letters & Science (L&S) if the student wants to come back to do a second liberal arts degree with another major offered within L&S such as Computer Science, Economics, Mathematics, or Spanish. (Also, students who started an additional major but did not declare it prior to graduating **are not eligible** to return as a second-degree student to finish up coursework for the 2nd or additional major.)
2. Satisfaction of all basic admissions requirements to UW–Madison, including geometry.
3. Submission of transcripts from all schools attended (especially if the first degree was not earned a UW–Madison). One set of transcripts must be sent to the Office of Admissions and Recruitment at UW–Madison and a second set of transcripts must be brought to the meeting with the academic dean in L&S Undergraduate Academic Services.
4. Minimum of 3.000 GPA on first undergraduate degree program. Coursework at all colleges attended (including UW–Madison, if applicable) is used to calculate this GPA.
5. An L&S academic dean will check for math and foreign language deficiencies.
6. Admission to the proposed major (a letter of support from the department confirming a student has met all basic entrance requirements to the major and is eligible to declare if admitted for a second undergraduate degree). **Please note that obtaining an endorsement from the department does not guarantee acceptance for a second undergraduate degree if the student does not meet the other criteria listed above.** If a student is lacking admission to or recommendation from the major department, the student could register as a University Special

student but may not register in the College of Letters & Science.

7. Written permission from an L&S academic dean.

**To earn a second undergraduate degree from UW–Madison, students must:**

1. Satisfy all Letters & Science degree requirements.
2. Satisfy all Quality of Work requirements.
3. Complete at least 30 credits in Letters & Science at UW–Madison after the first degree has been awarded, regardless of whether or not the first degree was an L&S degree. **Note that the second degree must be significantly different from the first.**
4. Complete a minimum of 108 Liberal Arts and Science credits which may include courses completed during the student's first degree program.

## SENIOR THESIS

Any senior who so desires may write a senior thesis. A thesis may not carry less than 4 or more than 8 credits and **must be carried over a two-semester period.** A senior thesis must represent treatment of some phase of the student's work in the major; the subject requires approval by the student's advisor and the faculty member in charge of the field of concentration (usually the department chair). Thesis students enroll for thesis course numbers 691 **and** 692 (students in the Honors Program enroll in 681 **and** 682 for a minimum of 6 credits and a maximum of 8 credits in total).

- Students **must** complete **both** 691 **and** 692 **or** 681 **and** 682 of the two-semester course sequence. A student **cannot** substitute one of the sequence courses with a directed study or other course.
- The two-semester course sequence must be in the same department (e.g., Anthro 691 and 692).
- Students **cannot** take the two-semester course sequence in one semester or term.

Students enrolled in a 691/692 or 681/682 senior thesis sequence will receive a grade of "P" (Progress) for the first half of the senior sequence (691 or 681) until they complete both semesters. This designation of "Progress" is a temporary grade used only for courses that span more than one semester/term (typically a senior thesis). When the course is completed, a final grade replaces the P for each term. The "P" does not count in any GPA computation. In addition, the "P" grade does not count for credit until it is replaced by a final grade.

## EXAMS

### COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program (CLEP) enables those students who have attained college-level competency outside the classroom to take examinations for college credit or placement. The General Examinations measure undergraduate achievement in five basic areas of liberal arts education:

- English composition
- Humanities



- Mathematics
- Natural Sciences
- Social Sciences/History

The Subject Examinations measure achievement in undergraduate courses. Both sets of examinations are aimed at the public-at-large, returning service personnel, and entering freshmen. Credit will be granted for the General Examination according to the criteria established ONLY to freshmen before they have earned more than 15 degree credits in a residence program or elsewhere. Only a limited number of departments accept CLEP Subject Examination credits. A continuing student with no more than 15 completed degree credits may register for the General or Subject Examination(s) by contacting the Office of Testing and Evaluation Services, 608-262-5863. For further information, consult L&S Undergraduate Academic Deans' Services at 608-262-0617 or the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/apply/freshman/apib.php>), 608-262-3961.

## EXAMINATIONS FOR PLACEMENT

### English

All students must take English placement tests to determine level of competence unless competence has been successfully demonstrated prior to enrollment through coursework (including AP and IB credits). On the basis of their test scores, most students will be required to enroll in and successfully complete a Communication Part A course. This course should be completed within a student's first 30 credits after enrollment.

Non-native speakers of English assigned to courses in English as a Second Language on the basis of their English as a Second Language (ESL) assessment test should see International Students and Non-Native Speakers of English (p. 297).

### Foreign Language

Students at UW–Madison who plan to resume the study of a foreign language begun in high school must take the UW System placement examination in that language and consult the foreign language department advisor for appropriate course placement.

Before enrolling in a level either higher or lower than the level of placement indicated by the examination, students should consult the foreign language department advisor. Without regard to any work taken in high school, students may enroll for degree credit in any course offered for degree credit by the college, provided they meet its prerequisites and provided they have not already received college credit for this course or an equivalent course or a higher level course in the same subject by course completion or examination.

This placement procedure permits students who are not confident about their high school foreign language work to retake that work in college before proceeding to more advanced study of that language. Students who feel they are ready to work at a higher level than that indicated by the placement test may do so. In no case may students

receive degree credit more than once for the same level college work.

### Mathematics

Entering freshmen are required to complete the appropriate placement test in mathematics. This test determines minimum math competency and placement. Students who do not demonstrate minimum competency in math will be required to complete additional non-degree-credit math courses within the first 30 credits after enrollment.

The results of the placement test in mathematics are binding. Students continuing in mathematics must enroll in the level of mathematics course that is indicated by the examination. However, students who feel their placement examination results are not valid or appropriate may appeal the placement by conferring with the undergraduate advisor in the mathematics department. If the advisor agrees, the student may carry a course below or above the placement indicated for degree credit provided previous college credit has not been granted by course completion or examination.

## FINAL EXAMINATIONS (ACADEMIC SUMMARY PERIOD)

Following the regularly scheduled instructional period each semester is an eight-day summary period. Usually the first day of the summary period is for individual study and review, and no classes or exams are to be scheduled during this designated period. The last seven days are prescheduled to include one two-hour summary block for each course of two or more credits. This two-hour block shall be used for an examination or for other instructional activities as deemed appropriate by the instructional unit offering the course. **During the two weeks preceding the summary period, examinations covering the content of the entire course cannot be given.** Take-home examinations are due at the scheduled two-hour block.

Faculty policy prohibits giving or taking final examinations earlier than the time assigned in the Course Guide. Students may arrange a make-up examination at a later date only if the professor is willing and if there is a valid reason for missing a final examination. (See the Guide entry "Incompletes (p. 306)" below.)

Students are required to attend all of their final exams. Leaving prior to the final examination period and not taking finals will have a negative impact on a student's final grade in a course or courses. See class attendance policy (<https://kb.wisc.edu/lis/page.php?id=24628>) for more information.

## MID-TERM EXAM POLICY INFORMATION

Information about mid-term evening exam policy along with fall, spring, and summer term final exam policy can be found at mid-term and final exam policy information ([https://registrar.wisc.edu/documents/exam\\_policy.pdf](https://registrar.wisc.edu/documents/exam_policy.pdf)) on the Registrar's website. Additional information can also be located at midterm grades ([https://registrar.wisc.edu/mid\\_term\\_grades.htm](https://registrar.wisc.edu/mid_term_grades.htm)) and

upcoming final exam periods ([https://registrar.wisc.edu/midterm\\_and\\_final\\_exam\\_information\\_faculty.htm](https://registrar.wisc.edu/midterm_and_final_exam_information_faculty.htm)).

- It is implicitly understood that no exams, papers, or assignments will be required during any break period (e.g., spring break) or major holiday.

## GRADES AUDIT

A student may enroll in a course on an audit (AU) basis only with prior consent of the instructor of the course. As an auditor, the student is considered a passive learner and may not recite in class or take examinations. **Courses with laboratory or performance skills may not be audited.** Regular class attendance is expected. Courses audited carry no degree credit and are not graded. The credit value of courses carried on an audit basis is included in the semester program load for purposes of determining fees and maximum credits carried.

Courses carried on an audit basis may have an impact on students applying for scholarships or other forms of financial assistance. Students should contact the unit/agency administering the scholarship or Student Financial Services for more guidance. **Students should also contact their insurance company to determine whether auditing a course (or courses) will have an impact on their coverage.** See [w \(https://kb.wisc.edu/lis/page.php?id=26734\)](https://kb.wisc.edu/lis/page.php?id=26734) hat does it mean to audit a course (<https://kb.wisc.edu/lis/page.php?id=26734>) for more details.

L&S undergraduate students who wish to change their registration in a course from a credit basis to an audit basis must do so within the first four weeks of the semester by submitting a Course Change Form (available at Course Change Request ([https://registrar.wisc.edu/course\\_change\\_request.htm](https://registrar.wisc.edu/course_change_request.htm))) to Suite 110 Ingraham Hall, 1155 Observatory Drive. (**Course Change Requests can be accessed through an individual's Student Center in My UW** (<https://my.wisc.edu>) **under: Course Enrollment/Term Information/Course Change Request.**) Students **will not** be able to submit or cancel a request to audit a course after the fourth week of the fall or spring term.

- For modular and summer session courses, audit requests must be submitted by the Friday of the week in which the session is one-fourth completed.
- Audits may affect a student's eligibility for financial aid (including Social Security and Veterans' benefits). Students should consult an advisor in the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) for more detailed information.
- Students with questions about their Veteran benefits and taking courses on an audit basis should contact the Veteran Services & Military Assistance Center (<http://veterans.wisc.edu>).

## FAILURES

Students who have earned a grade of F may repeat the failed course in residence. **The original grade of F remains permanently on a student's record and is averaged into the**

**semester and overall grade point average (GPA).** The failure will be counted as zero grade points per credit in computing the GPA. If a student repeats the failed course, the course will appear on the student's transcript twice with the original grade of F recorded and the new grade also recorded. Both grades will be counted in determining all applicable quality of work requirements. **Multiple failures in the same course all count in the GPA and will appear on a student's permanent records.** See can I retake a course that I have failed (<https://kb.wisc.edu/lis/page.php?id=21933>) for more details.

A course failed in residence at UW–Madison may be repeated for credit at any other educational institution. However the new grade earned out of residence will not have an impact on the student's UW–Madison GPA.

## GRADE CHANGE AND APPEAL

A change of grade is allowed only if there has been a clerical error. If an L&S undergraduate student believes a clerical error has been made in the awarding of the final grade for a course, the student should first meet with the instructor of the course to determine whether such an error has occurred. Requests for a change of grade must be signed by both the instructor of the course and the chair of the department. Students who believe they have been unfairly graded in a course should follow the appeal procedure established by the department in which the course grade was given.

The appeal procedure typically requires the student to first meet with the instructor of the course to discuss the issue, followed by a meeting with the department chair or department committee. If the issue is still unresolved after the department appeal procedure is completed, the student's last recourse would be to appeal to one of the Associate Deans in the College of Letters & Science based on the discipline of the course in question. Appeals of final grades must be initiated within the semester immediately following the term in which the course is taken. For more information, see What is the process for appealing a grade for an L&S undergraduate student? (<https://kb.wisc.edu/lis/page.php?id=28334>)

## GRADING SYSTEM

The general quality of a student's work is expressed in terms of a grade point average (GPA). It is based on the total number of credits carried, whether passed or not. Semester/term grades are reported by letter only (A, AB, B, BC, C, D, F); plus and minus signs are not authorized. The highest possible GPA is 4.000, representing A grades in every course; the lowest possible is 0.000.

For more detailed information, see valid instructor assigned grades ([http://registrar.wisc.edu/valid\\_instructor\\_assigned\\_grades.htm](http://registrar.wisc.edu/valid_instructor_assigned_grades.htm)).

For more information on the grading system, also see the section on undergraduate grades and grade point average (GPA) ([http://registrar.wisc.edu/grades\\_and\\_gpa.htm](http://registrar.wisc.edu/grades_and_gpa.htm)) on the registrar's website.

## INCOMPLETES

An Incomplete (I) may be reported for a student who has been enrolled in a course with a passing grade until near the end of the semester/term and then, due to illness or

some other unusual and substantiated cause beyond the student's control, has been unable to take or complete the final examination (or to complete some limited amount of term work). An Incomplete is not given to a student who stays away from a final examination unless the student proves to the instructor that he or she was prevented from attending as indicated above. In the absence of such proof the grade reported will be an F. Even when a student can provide verifiable documentation, a student may still earn a grade of F if the quality of the student's work convinces the instructor that the student cannot successfully pass the course.

Any subject taken by an L&S undergraduate student marked Incomplete must be completed by the end of the fourth week of classes of the student's next semester in residence at the University (exclusive of summer sessions) or it will lapse into a Failure. If an instructor grants an extended incomplete (EI), a grade change will need to be filed by the instructor, approved by the chairperson of the department, and forwarded to L&S Undergraduate Academic Deans' Services in 110 Ingraham Hall. In such cases the grade of I is replaced with the grade of extended incomplete (EI).

**NOTE: Extended Incompletes (EI) must be removed and replaced with the final grade by the last day of classes prior to the start of final exams or they will lapse into Failures.**

Incompletes incurred in the last semester in residence at UW-Madison may not be removed after five years of absence from the University without special advance permission from L&S Undergraduate Academic Deans' Services. Such Incompletes must remain on the record with grades of permanent incomplete (PI) and do not lapse into failures.

If a student enrolls with an Incomplete grade from a previous semester and is dropped later in the term because the Incomplete has lapsed to an F or has been changed to a low grade, the student will be withdrawn with an effective date within the refund period closest to the time of the student's actual withdrawal if the student has not been granted permission to continue by an L&S academic dean.

For further information, see What does it mean if my instructor gives me a grade of incomplete? (<https://kb.wisc.edu/lis/page.php?id=21330>) on the L&S website and Incompletes (<http://registrar.wisc.edu/incompletes.htm>) on the registrar's website.

## NO WORK GRADE

Students will receive a grade of No Work (NW) on their official records if they enrolled in a course and then never attended. Instructors may award this grade only when the instructor has no evidence that the student ever attended or submitted any work. Any student who does attend for part of the semester/term and then stops participating is not eligible to receive a grade of NW. The No Work notation does not have an impact on a student's semester/term or cumulative GPA. For more information, see Valid Instructor Assigned Grades ([http://registrar.wisc.edu/valid\\_instructor\\_assigned\\_grades.htm](http://registrar.wisc.edu/valid_instructor_assigned_grades.htm)).

A course failed in residence at UW-Madison may be repeated for credit at any other educational institution; however the

new grade earned out of residence will not have an impact on the student's UW-Madison grade point average (GPA).

## PASS/FAIL

Any L&S undergraduate student in good academic standing is eligible to take **one** course per term/semester on a pass/fail (S/U) basis. **For the College of Letters & Science, good academic standing means that a student does not have one of the following statuses:**

- probation
- strict probation
- continued probation
- continued strict probation
- dropped status

For information about probation, see academic probation and drop (p. 20).

- Undergraduates may carry only one course on a pass/fail basis per term (fall, spring, summer) and a maximum of sixteen (16) credits during their entire undergraduate career.
- First-semester freshmen and transfer students without an established UW-Madison GPA are eligible to take **one (1)** course for pass/fail in their first term at UW-Madison.
- Summer sessions collectively count as a single term. Thus, a student can only take **one (1)** course on a pass/fail basis during the summer.

Any student who takes a pass/fail course must earn at least a C to receive credit for the course. Final grades for these courses will be indicated as satisfactory (S) or unsatisfactory (U) without any computation of grade points for those courses into the semester or cumulative grade point average. The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U will be recorded by the Registrar's Office in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade point average. The pass/fail option is the student's choice and the instructor reports the grade without knowing whether or not the student is taking the course on a pass/fail basis.

For more information, see What does it mean to take a course pass/fail? (<https://kb.wisc.edu/lis/page.php?id=21102>)

### Notes:

- Students must submit (or cancel) pass/fail requests via their Student Center link (<https://my.wisc.edu>) by the end of the fourth (4th) week of fall and spring terms. (For modular and summer session courses, pass/fail requests must be submitted by the Friday of the week in which the session is one-fourth completed).
- Students **may not** cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms.
- All requests to add or cancel pass/fail must be submitted via the Course Change request in the Student Center by the appropriate deadline.
- For more information about the pass/fail process, refer to what does it mean to take a course pass/fail (<http://>

kb.wisc.edu/ls/page.php?id=21102) and Pass/Fail Option ([http://registrar.wisc.edu/pass\\_fail\\_option.htm](http://registrar.wisc.edu/pass_fail_option.htm)).

- **Students cannot cancel a Pass/Fail request after the deadline if s/he needs the course to fulfill a major or degree requirement at a later date. It is the student's responsibility to determine whether or not s/he can take a course on a pass/fail basis.**
- Pass/Fail and Course Change Requests can be accessed through a student's Student Center in My UW–Madison (<http://my.wisc.edu>) by clicking Course Change Request via Course Enrollment, Term Information. For more information about requesting the pass/fail option, refer to the registrar's website ([http://registrar.wisc.edu/pass\\_fail\\_option.htm](http://registrar.wisc.edu/pass_fail_option.htm)).
- **Only elective work may be carried on a pass/fail basis.** Thus, pass/fail **cannot** be declared or used to fulfill the following requirements:
  - Breadth (humanities, literature, social science, natural science)
  - Foreign language (prior to fulfilling the B.A. or B.S. foreign language requirement)
  - Math
  - Ethnic Studies
  - General Education Requirements (Comm A, Comm B, QR A, QR B)
  - Major requirements
- L&S undergraduates may take courses in their major or major department for pass/fail. **However, any coursework taken for pass/fail in the major or major department will not count toward fulfilling any requirements.** Students are strongly encouraged not to take coursework in their major program without first consulting with their undergraduate advisor.
- Courses carried on a pass/fail basis **cannot** fulfill any other college requirements except for the 60 intermediate/advanced level credits and 108 Liberal Arts and Science (LAS) credits needed to graduate.
- **Directed Study courses may not be taken on a pass/fail basis.**
- Pass/fail work **may not** be used as part of the coursework offered in satisfaction of the individual major.
- **Students may not take foreign language courses on a pass/fail basis until the foreign language requirement for their degree program has been satisfied.**
- **Students pursuing certificate programs should check with the certificate advisor(s) about policies concerning pass/fail for certificate program courses since many certificate programs do not allow coursework to be taken for pass/fail.**

For further information, deadline dates, and instructions for registration stop by the College of Letters & Science Academic Deans' Services in Suite 110 Ingraham Hall, 1155 Observatory Drive, or call 608-262-0617 for more assistance.

## Q GRADE

A "Q" grade is assigned by an instructor when there is a discrepancy between the work completed by a student and the student's official registration. The Office of the Registrar will

post the temporary Q grade/mark to a student's record until the discrepancy is resolved. A student will receive a Q in one of three situations:

1. a student registers for a variable-credit course and completes the work that is appropriate for a different number of credits;
2. a student registers for Honors credit and does not complete the Honors portion of the work; and
3. a student does not register for Honors but completes the Honors work appropriate for an Honors designation.

In each of the three cases listed above, students will need to work with the instructor to correct the situation before a grade can be reported. The correct grade will need to be forwarded by the instructor to L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>). For more information, see Valid Instructor Assigned Grades ([http://registrar.wisc.edu/valid\\_instructor\\_assigned\\_grades.htm](http://registrar.wisc.edu/valid_instructor_assigned_grades.htm)).

## GRADUATION

### DIPLOMA AND DEGREE INFORMATION

**A UW–Madison undergraduate diploma lists only the degree title.** Diplomas **do not** list major(s) or certificate(s) students complete as undergraduates. Major and certificate information is located on a student's official UW–Madison transcript.

- If a student is completing a bachelor of science degree with majors in history and economics, the degree on the student's diploma will be **Bachelor of Science**.
- If a student is completing a bachelor of arts degree, majoring in psychology and journalism, the degree on the student's diploma will be **Bachelor of Arts–Journalism**.

The College of Letters & Science offers the following degrees which will appear on an L&S undergraduate student's diploma:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music\*
- Bachelor of Arts–Journalism\*
- Bachelor of Science–Journalism\*
- Bachelor of Social Work
- Bachelor of Science–Applied Mathematics, Engineering and Physics\*

\*These specialized degree programs have requirements for completion distinct from the L&S BA/BS requirements. Students who complete these requirements are awarded these degrees in lieu of the general Bachelor of Arts or Bachelor of Science. More L&S degree information is available at Degrees/Majors/Certificate (p. 286).

## GENERAL EDUCATION REQUIREMENTS

The University of Wisconsin–Madison General Education Requirements (GER) (p. 17) are courses that provide for

breadth across the humanities and arts, social studies, and natural sciences. All students except those who matriculated at a college or university prior to May 20, 1996, must satisfy the university-wide General Education Requirements. The requirements consist of:

### Breadth (University Breadth)

All students must complete 13–15 credits of course work intended to provide a breadth of experience across the major modes of intellectual inquiry. Breadth course work is intended to give students a broad intellectual perspective on their undergraduate education and their world by encouraging them to look at and understand subjects through the various modes of inquiry used in the natural, physical and social sciences, arts, and humanities.

Students are required to complete the following breadth requirements:

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

This requirement challenges students to understand that there are many ways to research and explore, and ultimately understand, the world around us. These many "ways of knowing" are intended to enrich the undergraduate experience and complement intensive study in students' majors. Through these courses, many students discover subjects and ideas that will become lifetime interests, or that offer the creative stimulus to see their favorite subjects from new perspectives. **Note that the College of Letters & Science undergraduate breadth requirements exceed campus General Education requirements. Students who transfer to another UW–Madison school or college before completing the L&S breadth and ethnic studies may need to complete additional General Education requirements.** For more information, about L&S breadth, please refer to College of Letters & Science (<http://gened.wisc.edu/ReqAdditional/#LnS>).

The **natural sciences** (which include studies in the physical and biological sciences) involve knowing the world through scientific inquiry—assembling objective information that can be used to explain observed natural phenomena in a way that is thorough and verifiable. Laboratory components give students firsthand experience in methods of scientific research. These courses help students see both the explanatory and creative processes in science that are transforming our world.

The **humanities, literature, and the arts** examine the world through many different lenses that help students interpret and think critically about creative and cultural expressions of what it means to be human. Some courses focus on the production and analysis of artistic, literary, and scholarly works; others help students

learn about and compare religious and philosophical conceptions of humankind; still others study history and the peoples and regions of the world. All of these courses encourage students to analyze the range of creativity, cultural expressions, and ideas about and patterns in human existence—history, literature, art, culture, folklore—and to use that information to better understand humanity.

In the **social sciences**, students learn other ways to understand humanity. Courses in this area are found in a wide range of fields that share a common focus on the systematic study of personal interactions, and the interactions of society and institutions. These fields use quantitative and qualitative research strategies to look at the variety and scale of these interactions, and in these courses, students learn how to formulate research questions and determine what techniques are best used to answer those questions.

These "ways of knowing" the world around us intersect and overlap, and the ideas presented in one area will often inform and transform what we know or think about what we know about the others. Taken as a whole, the breadth requirement is intended to help UW–Madison graduates appreciate the many and complex ways to understand the world around us. By these means, students develop skills that help them make informed decisions in a wide range of political, economic, and social contexts, to think critically about the world, to better understand humanity, and to behave in socially responsible ways

### Communication

#### Communication, 3 to 5/6 credits

Communication A (<http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/CommACriteria-2012.pdf>). Literacy Proficiency. 2–3 credits at first-year level dedicated to reading, listening, and discussion, with emphasis on writing. While most incoming freshmen are required to complete course work to fulfill this requirement, students may be exempted from Communication A by approved college course work while in high school, AP test scores, or placement testing. Students are expected to satisfy this requirement by the end of their first year.

Communication B (<http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/CommB%20Fall%202016%20Criteria.pdf>). Enhancing Literacy Proficiency. 2–3 credits of more advanced course work for students who have completed or been exempted from Communication A. Students should consult with the appropriate undergraduate advisor about when this requirement should be completed. Courses that satisfy this requirement are offered in many fields of study; although a wide variety of courses fulfill this requirement, students are encouraged to select a course most in keeping with their interests or other requirements of their intended field(s) of study.

## Ethnic Studies

### Ethnic Studies, 3 credits

All students must take one course of at least 3 credits which is designated as an Ethnic Studies course. The ethnic studies requirement is intended to increase understanding of the culture and contributions of persistently marginalized racial or ethnic groups in the United States, and to equip students to respond constructively to issues connected with our pluralistic society and global community. Because this increased understanding is expected to have a positive effect on campus climate, students are encouraged to complete this requirement by the end of their second year. Please note that many ethnic studies courses may also fulfill breadth and other requirements.

Information about criteria and learning outcomes for ethnic studies courses ([http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/Criteria\\_and\\_Learning\\_Outcomes\\_2015.3.15.pdf](http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/Criteria_and_Learning_Outcomes_2015.3.15.pdf)) can be found on the General Education website (<http://gened.wisc.edu/CoursesNew>).

## Quantitative Reasoning

### Quantitative Reasoning, 3 to 6 credits

Quantitative Reasoning A (<http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/QRCriteria.pdf>). Quantitative Reasoning Proficiency. Three (3) credits of mathematics or formal logic. Students may be exempted from Quantitative Reasoning A by approved college work while in high school, AP test scores, or placement testing. Some students, however, may need to complete a prerequisite before enrolling in a Quantitative Reasoning A course. To ensure timely progress to completion of the undergraduate degree, students should complete this requirement by the end of their first year.

Quantitative Reasoning B (<http://gened.wisc.edu/sites/gened.wisc.edu/files/documents/QRCriteria.pdf>). Enhancing Quantitative Reasoning Proficiency. Three (3) credits of more advanced course work for students who have completed or been exempted from Quantitative Reasoning A. (Students must satisfy Quantitative Reasoning A before they may go on to Quantitative Reasoning B.) Courses that satisfy this requirement are offered in a variety of fields of study. Students are encouraged to select a course in keeping with their interests or other requirements of their intended field(s) of study.

For more information regarding the UW–Madison General Education Requirements, see General Education Requirements (p. 17).

## GRADUATION AWARDS

### Graduation with Distinction

The award of "Graduation with Distinction" will be noted on the transcript of students who have earned a grade point average that places them within the top 20% of the students graduating that term in their college/school provided 60 or more credits have been earned at UW–Madison. The Office of the Registrar performs a preliminary calculation for students declaring intent to

graduate and then makes a temporary posting that is included in the program for commencement. However, the final notation of Graduation with Distinction depends upon last term grades, as calculated by the registrar and relative to the performance of all students in that particular graduating class. For more detailed information, see how do I know if I qualify for graduation with distinction or distinction in the major (<https://kb.wisc.edu/lis/page.php?id=22260>).

### Distinction in the Major

This award is granted at graduation, upon the recommendation of a department to the dean, to any student not earning the Honors Degree who has done superior work in the major and who has passed a comprehensive examination on that work. The comprehensive examination may be omitted for the student with a 3.500 grade point average in the major who successfully completes special work prescribed by the department. The award is noted on the student's transcript.

### Thesis of Distinction

This award is granted at graduation, upon recommendation of a department to the dean, to any student not earning the Honors Degree who has written an exceptionally good or original thesis, without consideration of the student's record in other work. The chair of the department appoints a committee of at least two members, including the thesis advisor, to read the thesis and make an appropriate recommendation. These theses are retained in the department. The award is noted on the student's transcript.

## LETTERS & SCIENCE BREADTH

All L&S undergraduate students are required to fulfill the L&S Breadth of Exploration in the Liberal Arts and Sciences. The L&S Breadth includes:

- Humanities : 12 credits (of which 6 credits **must be** Literature credit)
- Social Science: 12 credits
- Natural Science: 12 credits
  - **Bachelor of Arts (B.A.)** candidates must complete a minimum of **one (1)** 3-credit Biological Science course **and one (1)** 3-credit Physical Science course. The additional six (6) credits can be any combination of natural, biological or physical science credits to bring the total to twelve (12) credits.
  - **Bachelor of Science (B.S.)** candidates must complete a minimum of six (6) credits of Physical Science **and six (6)** credits of Biological Science.

## LIBERAL ARTS AND SCIENCE CREDITS

Of the minimum 120 credits required for graduation for a B.A. or B.S. degree (General Course) at least 108 credits must be in courses designated as Liberal Arts and Science Courses. These courses are designated in the Guide (<http://>

guide.wisc.edu/courses) as satisfying this particular requirement. Nearly every course taught in L&S is designated in this way.

## QUALITY OF WORK REQUIREMENTS

A total of 120 degree credits is required for graduation, with a minimum 2.000 grade point average on all courses taken, whether or not each course is passed.

The quality of work requirements establish a minimum grade point average in four specific areas that **must be met** to receive a Letters & Science degree. In order to satisfy these requirements, the student must earn a minimum 2.000 grade point average on all courses carried at UW–Madison, whether passed or not, in these four areas:

1. All courses in the major (or majors);
2. All upper-level courses in the major, as designated by the major department for the 15-credit residence requirement;
3. All courses designated intermediate or advanced;
4. All courses carried for a grade at UW–Madison (cumulative grade point average, as reported by the Registrar Office). Courses carried on a refresher basis (see Repeat of College Courses Not for Credit (p. 299)) are excluded from the grade point average as determined for categories 1, 2, and 3 above. **Repeating a failed course will not remove the failure from the student's record or from GPA calculations.** This summary of college grade point requirements does not include those for admission to certain majors and special courses within the college or to other colleges and schools within the university, or to honors courses.

## RESIDENCE REQUIREMENTS

L&S students must complete 30 degree credits in residence after their 90th degree credit to complete the L&S residence requirement. Credit is considered "in residence" if it is earned for UW–Madison coursework, including courses taken through a study abroad program administered by UW–Madison.

Courses that **do not** count as "in residence" include:

- UW–Extension and other transfer credit
- Courses completed at other UW system schools
- Courses taken abroad through another institution
- AP (Advanced Placement) credit
- Credit by examination
- Retroactive credit

To satisfy this requirement, degree candidates who have accumulated 90 credits must complete at least 30 more degree credits in residence before they may graduate.

Students must **also** complete at least 15 credits in upper-level courses in their major(s) **at UW–Madison**. Refer to major requirements for a specific major to get more information about major residence requirements.

## Senior Residence Rule

**Students who have accumulated 90 credits must complete at least 30 more degree credits in residence before they may graduate.**

- Students who have earned all of their first 90 credits in residence are allowed to count up to (but never more than) two courses (for a maximum total of 8 credits) within the last 30 credits not in residence.
- Students whose first 90 credits are not earned entirely in residence must complete a minimum of 30 additional degree credits in residence. Students who are making satisfactory progress may seek a maximum 8-credit exception to the senior residence requirement. Refer to residence requirement (<http://saa.ls.wisc.edu/30-credit-rule.htm>) or contact L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>) for more information about a possible residence exception. Of the credits required for graduation, not more than 72 may be carried at non-degree-granting accredited institutions. Of the last 60 credits earned before graduation, not more than 12 may be carried at non-degree-granting institutions.

## TOTAL DEGREE CREDITS

To receive an undergraduate degree, students must earn a minimum of 120 degree credits (which includes AP, IB and other test credit, transfer credit, and retroactive credit) for most baccalaureate degrees granted by the College of Letters & Science. The total credits for the degree includes the University General Education Requirements, L&S Breadth, major requirements, and also elective credits not associated with any specific requirement, that allow students to explore other areas of academic interest. The requirements for some programs may exceed 120 degree credits. Students should consult with their academic/major advisor and DARS for information on specific credit requirements.

## MAJOR INFORMATION

### ACCEPTANCE INTO A MAJOR

A department, program, or school may specify prerequisites for acceptance into a major, such as a minimum grade point average or completion of particular courses with a minimum grade. Students are responsible for reviewing the quality requirements for a particular major or school, as outlined in the degrees/majors/certificates (p. 286) section of this Guide. Students should consult the department advisor for information. Only the department can make an exception. Students not accepted in a major or special degree program must select a different major.

### COMPLETING A MAJOR OUTSIDE L&S

L&S undergraduate students must complete at least one major in the College of Letters & Science. Students interested in completing an additional major outside the College of Letters & Science must first consult the dean's office for the other school or college. If the other school or college

approves the additional major, students must consult with an L&S academic dean to see if this is possible or if they will need to transfer to the other school/college to complete their degree. **Students in other schools/colleges on the UW–Madison campus (e.g., CALS, Education, etc.) are eligible to complete a major in L&S without having to complete L&S degree requirements if they receive permission from an academic dean in their home school/college.**

## HOW TO DECLARE AND CANCEL A MAJOR

Students **must** declare a major through the department or unit administering that program. Students should speak with the advisor for the major/certificate/special degree program to determine their eligibility to declare and the process for declaring the major. If a student does not plan on completing the requirements for a declared major, the student must return to that department or unit office to cancel the major. **Currently L&S undergraduate students may have as many majors as they wish, but they must go to the academic department/unit administering the major in order to declare each major or cancel any major they do not plan to complete.** Additional information can be found at declaring a major (<https://advising.wisc.edu/content/declaring-major>).

## MAJOR DECLARATION POLICY

All L&S undergraduate students **are required** to declare a major or be admitted into a program before or upon the completion of 86 degree credits (including credits from transfer, AP, test, study abroad, or retroactive credits).

**Students who have not declared by the time they have reached 86 degree credits will have an enrollment hold placed on their records preventing them from registering for future terms.** Students who are having difficulty declaring a major should speak with their assigned academic advisor as soon as possible to discuss options available to them.

Major declaration has benefits that are critical to student success. Students with majors:

- Can plan for timely graduation, which uses their resources wisely. Graduating on time lowers the overall cost of education and allows students to pursue their next life goals.
- Connect to the major department, gaining access to departmental advising resources, faculty contacts, and courses limited to majors.
- Connect with other students who are pursuing similar academic interests.
- Get timely and important information about the major (advising hours and workshops, upcoming courses, social events, student groups, speakers, opportunities, etc.).
- "Lock in" major requirements, so if those requirements change, students are held to the rules in place when they declared.

Declaring a major is an essential part of a student's academic career, and is integral to timely graduation; the great majority of students *do* declare their majors by the time they earn 86 credits. This policy is intended to help undeclared students reach out to advisors so they find majors that suit their talents and interests. This policy is also intended to make

the best use of both student and university resources, and to help students and their advisors create a plan for academic success and timely graduation.

## RESIDENCE REQUIREMENT IN THE MAJOR

All students, especially those students who participate in UW–Madison sponsored Study Abroad programs, must complete a minimum of 15 credits, at any level, in their major or major department, in courses taken on the UW–Madison campus. These credits may not include retroactive credit or credit earned by department examination.

## UPPER-LEVEL WORK IN THE MAJOR

All students must complete in residence a minimum of 15 credits of major course work defined as "upper-level" by the major department or program. (Please see the section on Residence Requirements (p. 312) for additional information about credits taken "in residence.") Furthermore, students must earn a minimum 2.000 grade point average on all upper-level work taken in the major, in residence.

## REQUIREMENTS

Students pursuing an undergraduate degree in Letters & Science must complete the University General Education Requirements (GER) (p. 17) and the following L&S requirements:

Code	Title	Credits
	Foreign Language	
	Mathematics	
	Breadth	
	Depth	
	Major Study	
	Requirements that apply to all majors	
	Acceptance as a major	
	Mastery of intermediate/advanced work	
	Residence requirement in the major	
	Residence requirements	
	Quality of work requirements	

## FOREIGN LANGUAGE

The study of a foreign language contributes in an important way to a broad education for today's students, who live in a world where the overwhelming majority of people do not speak or read English and where much of the knowledge that is disseminated may never appear in English. Knowledge of a foreign language is important for an appreciation of the culture of the people using that language, and it also helps students to understand the structure and complexities of their own native language. Students with sufficient preparation may be able to use the foreign language for study in their chosen discipline.

To be admitted to the University of Wisconsin–Madison, students must have completed the second-year level of a single foreign language (or American Sign Language) in high school. On extremely rare occasions, students may be admitted with a foreign language deficiency, but they will be required to make up that deficiency



by the time they earn their 60th degree credit, or they will not be allowed to continue.

### All students working for a B.A. or B.S. degree in the College of Letters & Science must fulfill the foreign language requirement.

Students with certain disabilities may apply for a substitution to the foreign language requirement by submitting required documentation to the L&S Disabilities Curricular Accommodations Committee (DCAC) for review.

#### B.A. Degree

For the **B.A. degree**, the foreign language requirement may be met in one of two ways: (1) completion of the fourth unit (level) in one language, or (2) completion of the third unit (level) in one language **and** completion of the second unit (level) in another language. For example, a student can satisfy the B.A. foreign language degree requirement if s/he:

- completed 4 units (years) of one high school language (e.g., French, German, etc.), **OR**
- completed the 4th unit of a college language course (e.g., AFRICAN 334, GERMAN 204, SLAVIC 208, etc.), **OR**
- completed 2 units (years) of one high school language (e.g., Spanish) **and** the 3rd unit/semester of a second foreign language (e.g., GERMAN 213, ITALIAN 203, etc.) at the college level, **OR**
- completed 3 units (years) of one high school language (e.g., Chinese) **and** the 2nd unit/semester of a second foreign language (e.g., E ASIAN 106, GERMAN 102, SLAVIC 112, etc.) at the college level

#### B.S. Degree

For the **B.S. degree**, the foreign language requirement may be met by completion of the third level (unit) of a foreign language in high school, or the equivalent third-semester-level college work. For example, a student can satisfy the B.S. foreign language degree requirement if s/he has:

- completed 3 units (years) of one high school language (e.g., French, Spanish, etc.), **or**
- completed the 3rd unit/semester of one college-level language (e.g., AFRICAN 333, FRENCH 203, SPANISH 203, etc.)

#### Foreign Language Substitution

The Foreign Language Substitution package (FLSP) is for degree-seeking candidates in the College of Letters & Science (L&S) only who are seeking to fulfill the L&S foreign language requirement and also have a documented disability in foreign language acquisition.

#### What is a Foreign Language Substitution?

The Foreign Language Substitution Package is designed to fulfill the College of Letters & Science faculty's intention in requiring foreign language as a part of the college curriculum. Specifically, the Foreign Language Substitution Package, like the foreign language requirement, provides students with information about language in general as well as the literature and culture of the people using a particular language.

Courses used to meet the substitution must be approved by the designated academic dean in L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>) (110 Ingraham Hall (<http://www.map.wisc.edu/?initObj=0056&wing=>)). Classes used for the substitution package **cannot** be used to fulfill any of the following requirements:

- Major requirements
- Breadth (humanities, literature, social science, science)
- Ethnic studies
- General Education Requirements (Comm A, Comm B, QR-A, QR-B)

#### How do I qualify for a Foreign Language Substitution?

The Disabilities Curricular Accommodations Committee (DCAC) of the College of Letters & Science can approve a substitution to the foreign language requirement for students in Letters & Science only with certain disabilities that make a course substitution appropriate. Extensive and very specific documentation is required from students and disability specialists. Further information may be obtained from the L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/foreign-language-substitution-package.htm>) (Room 110, Ingraham Hall, at 1155 Observatory Drive; 608-262-0617) or the McBurney Disability Resource Center (<https://mcburney.wisc.edu>)(702 West Johnson Street; 608-263-2741).

#### Note that an appointment at the McBurney Center is required before submitting the application.

This appointment should be made no less than one semester prior to applying for the substitution package. McBurney Center staff will help you determine what documentation is necessary for the application, as well as assess whether additional testing is required.

After meeting with a McBurney Center staff member, a student should fill out and complete an application for the substitution package. The deadline to submit a completed copy is at the end of the fourth week of the fall and spring terms. Applications are not accepted during the summer term. All students who submitted a completed application by the deadline should hear back from the Disabilities Curricular Accommodations Committee (DCAC) regarding the status of their application within six to eight weeks after the deadline.

**Please make sure you submit your original completed application and also four (4) additional copies of your completed application to Suite 110 Ingraham Hall at 1155 Observatory Drive before 4:00 p.m. on Friday of the deadline.** (The deadline to submit a completed application for consideration is the end of the 4th week of the fall and spring terms.) A completed application must include five (5) copies of each of the five items below:

1. High school transcript and transcripts from other post-secondary institutions

you may have attended prior to UW–Madison (you will need to contact original high school or other institution of higher learning for these records if you do not have copies)

2. UW–Madison transcript
3. Copy of your most recent DARS (Please go to your My UW and access the Student Center to request a DARS.)
4. Student application form (see p. 7 of Foreign Language Substitution Package application located at Foreign Language Substitution Package (<http://saa.ls.wisc.edu/foreign-language-substitution-package.htm>))
5. Copy of McBurney Center VISA (Verified Individual Services and Accommodations) plan if student has one
6. Other relevant and current disability documentation assembled in consultation with McBurney Center staff

#### What are the requirements for a Foreign Language Substitution?

1. General Language: If approved for an L&S foreign language substitution package, both **B.A.** and **B.S.** degree candidates must complete one (1) course having to do with language in general (selected from an approved list of classes). If a student's official UW–Madison records has at least one unit (year) of a high school foreign language, this requirement is fulfilled. If a student has not taken a foreign language in high school, please select **one (1)** course from either a, b, or c listed below:

- a. LINGUIS 101 (Linguistics)
- b. CS&D 240 (Communication Sciences & Disorders)
- c. ENGL 201, ENGL 207, ENGL 304, ENGL 307, ENGL 400, ENGL 407, ENGL 408, ENGL 409 (English)

2. Cultural Context:

**B.A.** students must complete the following:

**Three (3)** courses related to a country, region, or a group of countries sharing a common language in the following areas:

- a. Literature
- b. History or Culture
- c. General elective

- If a student has a second unit (year) in the same high school foreign language, it can fulfill the History or Culture (b) requirement for the B.A. degree. Students must then also take a Literature course and General elective in the same language area to complete the requirement. If a student **has not taken** a foreign language in high school, please must complete items a, b, and c above. **All coursework taken for the foreign language substitution package must be approved by an academic dean in L&S**

**Undergraduate Academic Deans' Services** (<http://saa.ls.wisc.edu/deans-services.htm>).

**B.S.** students must complete the following: **Two (2)** courses related to a country, region, or a group of countries sharing a common language in the following areas:

- a. Literature
- b. History or Culture

- If a student has a second unit (year) in the same high school foreign language, it can fulfill the History or Culture (b) requirement for the B.S. degree. Students pursuing a B.S. must also take a Literature course in the same language area to complete the requirement. If a student **has not taken** a foreign language in high school, please must complete items a and b above. **All coursework taken for the foreign language substitution package must be approved by an academic dean in L&S Undergraduate Academic Deans' Services** (<http://saa.ls.wisc.edu/deans-services.htm>).

#### What are my responsibilities as a student to complete the Foreign Language Substitution?

**Students must submit five (5) copies** of all required materials to the Disabilities Curricular Accommodations Committee in L&S Academic Deans' Services (Suite 110 Ingraham Hall, 1155 Observatory Drive, 608-262-0617) by the end of the fourth (4th) week of the semester (fall or spring semester) in which they would like to present their case for review. **Applications are not accepted or reviewed during the summer.**

Completed applications will be reviewed approximately six (6) weeks after the official deadline. Students will then be notified shortly after the Disabilities Curricular Accommodations Committee meets regarding the results. Students who are approved for a foreign language substitution package must make an appointment to speak with an academic dean in L&S Undergraduate Academic Deans' Services (110 Ingraham Hall; 608-262-0617) to talk about the next steps they will need to take in order to complete their substitution package. **Students will not be able to complete their approved foreign language substitution package until they have met with an academic dean to select the appropriate courses they need to fulfill this requirement.**

Students who have not been previously diagnosed as learning-disabled or hearing-impaired should plan three to four months to schedule required testing and to receive results and interpretation of the testing.

Contact the McBurney Disability Resource Center (<http://www.mcburney.wisc.edu>) for current information about the tests required. Results of the specified tests taken within the previous four years are acceptable; retesting is required if test results are not at least this current.

For persons with a hearing loss, certain criteria must be met to apply for a substitution to the foreign language

requirement. Contact the McBurney Disability Resource Center for details.

## MATHEMATICS

Mathematics is a principal tool of knowledge. Algebra and geometry provide the minimum of mathematics skills that an educated person needs in today's world, and competence in these areas is required for admission to the university. Since mathematics underlies quantitative work in all sciences, and the level of mathematical background required has been steadily increasing in most areas of science, the L&S math requirements should be viewed as minimums. **Please note that some majors require additional work in mathematics.**

New freshmen (first-year students) who do not meet satisfactory minimal competencies in mathematics upon admission or whose mathematics placement test scores place them in MATH 96 must begin to take remedial course work in mathematics during their first or second semester and continue each semester thereafter, if necessary, until they have satisfactorily completed the mathematics proficiency requirement. Students who do not accomplish this will need to obtain permission to continue in the College of Letters & Science.

Both **B.A. and B.S. degrees** require that students satisfy *minimum math competency* by having completed the three units of math required for admission. A unit is one year of high school work or one semester of college work. This will ordinarily include one unit each of high school algebra, geometry, and an additional unit of mathematics. **High school courses in general mathematics or business mathematics will not satisfy the minimum math competency.**

### B.A. Degree

For the **B.A. degree**, no additional math is required beyond completion of the university's General Education Quantitative Reasoning A and B requirements. However, certain L&S majors may require students to do additional math coursework even though students are pursuing a B.A. degree.

### B.S. Degree

The **B.S. degree** requires an additional two units/courses at the intermediate level in mathematics, computer sciences, or statistics. If this work is taken on the college level, it **must** be at least a 3-credit course **and** must be taken in the departments of Mathematics (<http://guide.wisc.edu/courses/math>), Computer Sciences ([http://guide.wisc.edu/courses/comp\\_sci](http://guide.wisc.edu/courses/comp_sci)), or Statistics (<http://guide.wisc.edu/courses/stat>) only. Courses in sociometrics (e.g., SOC/C&E SOC 360, SOC/C&E SOC 361, etc.), econometrics (e.g., ECON 310), psychometrics (PSYCH 210), etc. **do not** count toward the B.S. degree mathematics requirement. **At most, only one (1) course in Computer Science (COMP SCI) and Statistics (STAT) may be counted toward the BS mathematics requirement.**

## BREADTH

### Ways of Knowing

At the heart of any degree in the liberal arts and sciences is an active understanding of the variety and breadth of the many scholarly approaches to knowing the world. Every student in the College of Letters & Science experiences significant exposure to three principal fields of knowledge: the arts and humanities, the social sciences, and the natural sciences. These broad fields of knowledge are not the same as the areas of depth that we call

"majors." In fact, any particular major—or even a particular course within a major—might well involve more than one of these fields of knowledge. (For example, imagine a seminar on "people and the environment" that combines historical background, research on social patterns of energy use, and scientific understandings of climate.) Working together, each of these three fields of knowledge represents a particular "way of knowing" about the world around us.

### Arts and Humanities

Courses in the **arts and humanities** involve knowing the world through the production and analysis of artistic, literary, and scholarly work. Some courses examine the fine and performing arts, or literature, presenting students with opportunities to interpret and think critically about these creative expressions of the human condition. Other courses help students to understand and compare religious and philosophical conceptions of humankind. Still other courses take on historical subjects, focusing on moments of change and periods of continuity for the peoples and regions of the world. These courses all encourage students to analyze the range of creative and cultural artifacts, expressions, and ideas of human existence—history, literature, art, culture, folklore—and to use that information to better understand humanity and to cultivate civic and social responsibility.

### Social Sciences

Courses in the **social sciences** involve knowing the world through the systematic study of human society, interactions, and institutions. The social sciences explore these issues from a wide range of perspectives and research techniques, both quantitative and qualitative. Through these courses students learn how to formulate research questions and determine what techniques are best used to answer those questions—for example, exploring ideas and developing theories, conducting surveys and building models, or observing and participating in social life itself. Developing such analytical skills assists students as they approach complex problems and seek to solve them in both the workplace and the community.

### Natural Sciences

Courses in the **natural sciences** involve knowing the world through scientific inquiry—assembling objective information that can be used to explain observed natural phenomena in a way that is thorough and verifiable. The natural sciences are often divided into the **physical sciences** (dealing with matter and energy, or the study of the earth, atmosphere, and oceans) and the **biological sciences** (dealing with life and living systems, like plants, animals, and environments). These courses often contain laboratory components that allow students to gain firsthand experience in scientific research methods. By completing this requirement, science and non-science majors alike will gain an appreciation for science as a way of systematically looking at the natural world, understanding how this process can be used to inform decision-making in a wide range of political, economic, and social contexts.

Together, these broad "ways of knowing" give students a complementary set of tools for seeing, imagining, and asking questions about the world—tools that enhance creative problem solving no matter what the field. And, because twenty-first-century knowledge is not neatly compartmentalized, it is worth noting that these areas of study intersect and overlap; courses in some areas draw upon strategies used in the others. Experiences in "breadth" courses can be life-changing: we frequently hear that a course taken to fulfill a breadth requirement introduced someone

to a subject that became a new major, a new way of looking at a current major, or a lifelong interest. For more information, visit the KnowledgeBase help document (<https://kb.wisc.edu/lc/page.php?id=27031>).

A liberal education involves not only the nature and kinds of knowledge but also the purpose for which knowledge should be used. These considerations are embodied in the breadth or distribution requirement and call for knowledge in several fields of learning. The purpose of this breadth requirement is to ensure that a degree candidate will obtain an understanding of approaches in the humanities, social sciences, biological sciences, and physical sciences adequate for use both as a citizen and as a specialist.

### Breadth Requirements

The L&S breadth requirement is met with 36 credits in the three broad areas of knowledge: humanities, social sciences, and natural sciences. (This may include courses beyond the elementary level in mathematics, computer sciences, and statistics.)

Courses that carry L&S breadth credit are expected to broaden significantly a student's understanding of the world and a general disciplinary approach to problems studied, questions asked, modes of inquiry undertaken to answer those questions, analysis of research findings, communication about results, and implications for further study and/or action. Many courses in L&S carry a breadth designation; however, some types of courses may not convey breadth. (Note: Coursework taken to fulfill the university-wide General Education Requirements (p. 17) will also count toward fulfilling the 36 credits required for the L&S Breadth Requirement.)

#### B.A. Degree

**Humanities:** Students are required to complete **12 credits** in the humanities, 6 of which **MUST** be in literature. Look in the courses (<http://guide.wisc.edu/courses>) section of the Guide under Course Designation for course qualifications.

**Social Sciences:** Students are required to complete **12 credits** in social sciences. Look in the courses (<http://guide.wisc.edu/courses>) section of the Guide under Course Designation for course qualifications.

**Natural Sciences:** Students are required to complete **12 credits** in natural sciences. Students **must** take at least one **3+ credit** course in **physical science AND** one **3+ credit** course in **biological science**. Look in the courses (<http://guide.wisc.edu/courses>) section of the Guide under Course Designation for course qualifications.

#### B.S. Degree

**Humanities:** Students are required to complete **12 credits** in the humanities, 6 of which **MUST** be in literature. Look in the courses (<http://guide.wisc.edu/courses>) section of the Guide under Course Designation for course qualifications.

**Social Sciences:** Students are required to complete **12 credits** in social sciences. Look in the courses (<http://guide.wisc.edu/courses>) section of the Guide under Course Designation for course qualifications.

**Natural Sciences:** Students are required to complete **12 credits** in natural sciences. Students **must** complete **6 credits** in **physical science AND 6 credits** in **biological science**. Look in the courses ([\[guide.wisc.edu/courses\]\(http://guide.wisc.edu/courses\)\) section of the Guide under Course Designation for course qualifications.](http://</a></p>
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## DEPTH: UNDERSTANDING A FIELD OF STUDY (MAJOR)

The process of declaring and completing a major—often, but not always, attached to a particular university department—provides students with an opportunity to concentrate on an in-depth investigation of at least one subject or issue, putting their tools for learning and ways of knowing to focused use. This intensive understanding of one topic helps students to appreciate the potential depth of the others. A student's work in the major reflects a continuing progression of skills, knowledge, and values, where advanced learning opportunities in upper-level coursework grow from and expand upon earlier experiences, helping students build additional depth in writing, speaking, information literacy, and critical thinking skills from the perspective of a particular discipline. In senior capstone or independent research projects, students are frequently asked to synthesize what they have learned and apply it in a variety of new situations. By the conclusion of their studies, students in the major are better able to understand themselves and their society, to develop their intellectual powers outside of a University setting, and to make productive contributions to the world around them. (See list of L&S majors (p. 286).)

## MAJOR STUDY

Every candidate for an L&S baccalaureate degree **must** satisfy a depth requirement encompassing a specified and approved major field of study. Students may elect a department major, a major in a recognized interdisciplinary program, or may develop an individual major if approved by a faculty review committee. Students in Letters & Science may not complete the depth requirement with any department or program outside the college, except for the departments of Biochemistry, Environmental Sciences, and Microbiology. These departments are the only exceptions.

**All L&S undergraduate students are required to declare a major by the time they have earned 86 degree credits.** Students who do not declare a major by the appropriate time will have an enrollment hold placed on their records so they cannot enroll in future terms.

<sup>1</sup> All L&S undergraduate students are required to declare a major or be admitted into an L&S special degree program upon the completion of 86 credits (including credits from transfer, AP, test, study abroad, or retroactive credits).

Students have three choices in meeting the depth requirement in the College of Letters & Science:

1. Single Major
2. Multiple Majors
3. Individual Major

### Single Major

Students may fulfill the requirements of a single major as outlined in the descriptions of the various L&S majors (p. 286).

### Multiple Majors

All students may satisfy the requirements for more than one major, either department and/or interdisciplinary major, and have this fact noted on the transcript and other university records.

Students may complete one or more established majors and one individual major if approved by a faculty review committee. **No**

**student may earn more than one individual major.** Students completing two or more majors may count courses crosslisted in each major department in partial satisfaction of the requirements for each major.

**Individual Major** (p. 900)

## REQUIREMENTS THAT APPLY TO ALL MAJORS

### Major Declaration Policy

#### Policy

**All L&S undergraduate students are required to declare a major or be admitted into a program before or upon the completion of 86 credits (including credits from transfer, AP, test, study abroad, or retroactive credits).**

Major declaration has benefits that are critical to student success. Students with majors:

- Can plan for timely graduation, which uses their resources wisely. Graduating on time lowers the overall cost of education and allows students to pursue their next life goals.
- Connect to the major department, gaining access to departmental advising resources, faculty contacts, and courses limited to majors.
- Connect with other students who are pursuing similar academic interests.
- Get timely and important information about the major (advising hours and workshops, upcoming courses, social events, student groups, speakers, opportunities, etc.).
- "Lock in" major requirements, so if those requirements change, students are held to the rules in place when they declared.

Declaring a major is an essential part of a student's academic career, and is integral to timely graduation; the great majority of students *do* declare their majors by the time they earn 86 credits. This policy is intended to help undeclared students reach out to advisors so they find majors that suit their talents and interests. This policy is also intended to make the best use of both student and university resources, and to help students and their advisors create a plan for academic success and timely graduation.

### How to Declare and Cancel a Major

Students must declare a major through the department administering that program. Students should request a Major/Certificate Declaration form from the academic department/unit administering the major. This form should be completed by the student and left at the department office administering the major. If a student decides to change his/her major later, the student should return to that department office and cancel his/her major. **Students may have as many majors as they wish, but they must complete the Major/Certificate Declaration form for each major and cancel any major they feel they cannot complete.**

### Mastery of Upper-Level Work in the Major

All students must complete in residence a minimum of 15 credits of major course work defined as "upper-level" by the major department or program. (Please see the section on Residence Requirements below for additional information about credits taken "in residence.") Furthermore, students

must earn a minimum 2.0 grade point average on all upper-level work taken in the major, in residence.

### Residence Requirement in the Major (also known as the "Study Abroad Stipulation")

All students, especially those students who participate in UW–Madison sponsored Study Abroad programs, must complete a minimum of 15 credits, at any level, in their major or major department, in courses taken on the UW–Madison campus. These credits may not include retroactive credit or credit earned by department examination.

### Advising

Questions about choosing a major can be discussed with department advisors and faculty, academic deans, members of L&S Undergraduate Academic Services and the L&S Honors Program office, and with the Cross-College Advising Service staff. For additional information about advising, see the description of L&S advising programs (p. 319).

### Completing a Major Outside L&S

L&S students must complete at least one major in the College of Letters & Science to satisfy the depth requirement. Students interested in completing an additional major outside the College of Letters & Science must first consult the dean's office for the other school or college. If the other school or college approves the additional major, students must consult with an L&S academic dean to get permission to pursue a second major outside L&S.

### Total Degree Credits: 120

A minimum of 120 degree credits is required for most baccalaureate degrees granted by the College of Letters & Science. The total credits for the degree encompass the requirements detailed above, but also include elective credits not associated with any specific requirement, that allow students to explore other areas of academic interest. The total credit requirement for some special programs is more than 120 degree credits. The college allows degree credit, as well as placement credit, for the mastery of some L&S course work as demonstrated by successfully completing appropriate tests. (See Credit by Departmental Examination (p. 8)).

### Liberal Arts and Science Credits: 108

Of the minimum 120 credits required for graduation for a B.A. or B.S. degree (General Course) at least 108 credits must be in courses designated as Liberal Arts and Science Courses. These courses appear in the Guide as L&S credit and can be identified by looking at the **course designation** section for a course in the Guide (<http://guide.wisc.edu/courses>). Nearly every course taught in L&S is designated in this way.

### Non-L&S Courses and L&S Degree Credit

**Liberal Arts and Science ("C") Courses.** The College of Letters & Science has long recognized that courses offered by other units of the university provide valuable and appropriate learning experiences for students pursuing a degree offered by the college. The college has approved many of these courses for L&S students to take for degree credit, and after careful review, has determined that these courses are *Liberal Arts and Sciences* (LAS) courses. These courses appear in the Guide as L&S credit and can be identified by looking at the **course designation** section for a course in the Guide

(<http://guide.wisc.edu/courses>). Courses designated as liberal arts and science courses count toward the L&S degree requirements, including requirements related to breadth and level.

**Non-L&S Courses Crosslisted with L&S Departments.** A course offered in the College of Letters & Science that counts as L&S credit and which is crosslisted with a department in another school or college is considered a Liberal Arts and Science course. These courses appear in the Guide as L&S credit and can be identified by looking at the **course designation** section for a course in the Guide (<http://guide.wisc.edu/courses>). As L&S credits, they may be counted as part of the major and count as part of the 108 Liberal Arts and Science credits required for an L&S degree.

**Non-L&S Courses Required for L&S Majors.** Courses taught in departments located in schools or colleges other than L&S, but which are required for completion of an L&S major, are considered Liberal Arts and Science courses. Such courses will *either* carry the L&S credit designation in the Guide (<http://guide.wisc.edu/courses>), or their Liberal Arts and Sciences status will appear in the DARS degree audit. In both cases, these courses count as part of the 108 L&S credits required for a degree.

**Free Electives in the Degree.** If a student so chooses, he or she may count for degree credit up to 12 credits "freely chosen" from many non-L&S, UW–Madison-approved courses. These courses are referred to as "free electives in the degree." These courses may be selected from any UW–Madison subject listing in the Guide (<http://guide.wisc.edu/courses>), and are not designated as courses in the Liberal Arts and Sciences, or L&S credit courses.

**Credit earned in these courses apply to the degree requirements in the following ways:**

- Courses taken as free electives in the degree may be carried and will appear on the transcript showing credits, grade, and grade points.
- These credits will count as part of the semester load and will count toward satisfaction of the minimum progress requirements.
- These credits and grade points will be included in calculating a student's semester and cumulative grade point average.
- Free electives in the degree cannot be used to satisfy the L&S requirement that students complete a substantial portion of their degree credits in intermediate and advanced work (see the section *Mastery of Intermediate/Advanced Work* below).
- Courses that are taught in L&S departments but not designated as Liberal Arts and Science courses (e.g., Music and Music Performance courses numbered 099 and below) may be counted for credit as free electives in the degree. (For B.A./B.S. Music majors, Music and Music Performance courses numbered 099 and below that are not required for the major may be counted as free electives.) Students with questions regarding a particular course offered by a school or college outside L&S as it relates to the requirement to complete 108 Liberal Arts and Science credits should consult an academic dean before registration.

## ACCEPTANCE AS A MAJOR

A department, program, or school may specify prerequisites for acceptance into a major, such as a minimum grade point average or completion of particular courses with a minimum grade. Students are responsible for reviewing the quality requirements for a particular major or school as outlined under the L&S majors (p. 286) section of the Guide. Students should consult the department advisor or the school or college dean's office for information. Only the department or school can make an exception. Students not accepted in a major or school must select a different major.

## MASTERY OF INTERMEDIATE/ADVANCED WORK

All L&S courses and those taught outside L&S and approved for L&S degree credit are designated by departments as elementary, intermediate, or advanced. A minimum of 60 credits must be earned in courses designated by the departments as intermediate or advanced, with a grade point average of 2.0 on all courses carried whether passed or not. The purpose of this requirement is to encourage students to undertake advanced work to the greatest possible extent and to insure that they will achieve greater sophistication and a deeper mastery of subject matter as they advance through the baccalaureate curriculum. **Credits earned in courses taken as free electives in the degree cannot be used to meet this requirement.**

## RESIDENCE REQUIREMENT IN THE MAJOR

All L&S undergraduate students must complete 15 degree credits of upper-level work in their major in residence. Credits are considered **in residence** if earned in a UW–Madison degree credit course, including those taken on a UW–Madison study abroad program. Transfer credit, courses completed at other UW System schools, UW Extension courses, or courses taken abroad through a nonresidence program are not considered in residence. Upper-level courses are classes determined by the major program/department to be in-depth within the context of that particular major.

## RESIDENCE REQUIREMENTS

**The UW–Madison Experience.** In order to receive a degree from the College of Letters & Science, all students must earn a minimum of degree credits (30) in residence at the University of Wisconsin–Madison as they near completion of their degrees. In other words, L&S students must complete 30 degree credits in residence after their 90th degree credit to complete the L&S residence requirement. Credit is considered "in residence" if it is earned for UW–Madison coursework, including courses taken through a study abroad program administered by UW–Madison. Courses that **do not** count as "in residence" include:

- UW–Extension and other transfer credit
- Courses completed at other UW system schools
- Courses taken abroad through another institution
- AP (Advanced Placement) credit
- Credit by examination
- Retroactive credit

**Senior Residence Rule.** Students who have accumulated 90 credits must complete at least 30 more degree credits in residence before they may graduate.

- Students who have earned all of their first 90 credits in residence are allowed to count up to (but never more than) two courses (for a maximum total of 8 credits) within the last 30 credits not in residence.
- Students whose first 90 credits are not earned entirely in residence must complete a minimum of 30 additional degree credits in residence. Students who are making satisfactory progress may obtain an L&S dean's permission to count for degree credit any course work not taken in residence. Contact an L&S academic dean for more information. Of the credits required for graduation, not more than 72 may be carried at non-degree-granting accredited institutions. Of the last 60 credits earned before graduation, not more than 12 may be carried at non-degree-granting institutions.

## QUALITY OF WORK REQUIREMENTS

A total of 120 degree credits is required for graduation, with a **minimum** 2.000 grade point average on all courses taken, whether or not each course is passed.

The quality of work requirements establish a minimum grade point average in four specific areas that **must be met** to receive a Letters & Science degree. In order to satisfy these requirements, the student must earn a minimum 2.000 grade point average on all courses carried at UW–Madison, whether passed or not, in these four areas:

1. All courses in the major (or majors);
2. All upper-level courses in the major, as designated by the major department for the 15-credit residence requirement;
3. All courses designated intermediate (I) or advanced (A);
4. All courses carried for a grade at UW–Madison (cumulative grade point average, as reported by the registrar). Courses carried on a refresher basis (see Is it possible to retake a course that I have already passed or received degree credit (<https://kb.wisc.edu/lis/page.php?id=21934>)) are excluded from the grade point average as determined for categories 1, 2, and 3 above. Repeating a failed course **will not** remove the failure from the student's record or from GPA calculations. This summary of college grade point requirements does not include those for admission to certain majors and special courses within the college or to other colleges and schools within the university, or to honors courses.

## FOUNDATIONS: TOOLS FOR LEARNING

For all UW–Madison undergraduates, these learning experiences begin with students satisfying the university's General Education Requirements—usually by taking courses taught within the College of Letters & Science. These common foundations cover key topics which are necessary for any undergraduate major and any prospective career: oral and written communication; mathematical and logical reasoning; and the diversity of cultures within global society.

In addition to these university-wide requirements, all L&S students must attain knowledge of a foreign language, in work that combines training in both communication and culture, so students may better understand and

participate in the global community of the twenty-first century. Together, these "tools for learning" may be acquired through many different courses taught by many different departments. The key is that they are never taught in isolation, but always considered together with broad exposure to various "ways of knowing" from the arts and humanities, the natural sciences, and the social sciences. (For more on the General Education Requirements, see Requirements for Undergraduate Study (p. 17); (<http://www.ls.wisc.edu/gened/>) for more on the L&S requirements, see Letters & Science Degrees (p. 312).)

## LETTERS & SCIENCE DEGREES

The College of Letters & Science offers two basic degrees for students in the General Course and five other degrees for students in special programs. Students in the General Course, regardless of major, may earn either a Bachelor of Arts or a Bachelor of Science degree. The special degrees are: Bachelor of Science–Applied Mathematics, Engineering, and Physics (AMEP); Bachelor of Arts–Journalism or Bachelor of Science–Journalism; Bachelor of Music; and Bachelor of Social Work. (For details, see sections for AMEP (p. 914), Journalism (p. 1045), Music (p. 935), and Social Work (p. 1053) in the L&S section of this catalog.) **Students who have multiple majors in L&S earn only one undergraduate degree.**

Honors degrees may be earned in all of the above upon completion of the L&S Honors Program. See L&S Honors Program (p. 322) for more information. Majors completed in the General Course and for the Bachelor of Music degree will be posted on the transcript.

## RESOURCES

### ADVISING IN LETTERS & SCIENCE

Academic advising is an essential component of undergraduate education, and the college's commitment to providing quality advising for undergraduates is reflected in the many advising programs it offers. Students who have not yet declared a major are assigned an advisor in L&S Academic Advising Services or the Cross-College Advising Service (see below). Students who have declared a major are assigned an advisor in their department or program.

All of the advising programs share the goal of assisting students in making responsible, informed decisions as they develop educational plans compatible with their potential, their interests, and their career and life ambitions. Advisors provide much more than information about course selection and academic programs; they encourage students to ask questions about the nature and direction of their learning, and they work with students to find meaningful answers to those questions. Advising involves a process in which students learn to think critically about the variety of options available to them and develop decision-making skills that will enable them to choose wisely. As adults, students themselves, however, must assume primary responsibility for choosing their academic program and making progress toward their degree.

### ACADEMIC ADVISING SERVICES (AAS)

Letters & Science Academic Advising Services provides advising to pre-declared Letters & Science (L&S) undergraduate students who intend to complete a specific L&S degree and major.

We assist and support students in exploring their educational goals, learning about academic requirements, navigating the university structure, and progressing toward degree completion.

**Contact Information**

Academic Advising Services (<http://advising.ls.wisc.edu>)  
 Middleton Building Suite 155  
 1305 Linden Drive  
 Madison, WI 53706-1523  
 Send us an email ([acac@saa.ls.wisc.edu](mailto:acac@saa.ls.wisc.edu))  
 Tel: 608-262-5858

**CROSS-COLLEGE ADVISING SERVICES (CCAS)**

Advisors at the Cross-College Advising Service (CCAS) provide personalized advising to help you develop a plan for choosing your major and exploring careers. We are here to help you make decisions about what to major in and also answer your general questions about academics and life on campus.

We'll meet you at SOAR, and after that help you plan your future courses, talk about your academic interests and options, and refer you to other helpful campus resources. We're also here to encourage you when things are going well, as well as support you when times are difficult.

**Contact Information**

Cross-College Advising Services (<https://ccas.wisc.edu>)  
 10 Ingraham Hall 1155  
 1155 Observatory Drive  
 Madison, WI 53706  
 Send us an email ([ccas@ccas.wisc.edu](mailto:ccas@ccas.wisc.edu))  
 Tel: 608-265-5460

**CENTER FOR ACADEMIC EXCELLENCE (CAE)**

The College of Letters & Science Center for Academic Excellence (CAE) provides an enriching, inclusive community and academic support for L&S students who have been historically underrepresented in higher education, including first-generation and low-income students, and students of color. CAE offers a variety of engagement opportunities, including high-touch advising, tutoring programs, health and wellness events, social events, graduate school preparation, and connections with High Impact Practices (<http://cae.ls.wisc.edu/high-impact-practices.htm>). CAE also assists in campus-wide efforts to fully integrate diverse voices into the university community to facilitate a welcoming, responsive, and validating campus climate for our students.

**Contact Information**

Center for Academic Excellence (<http://cae.ls.wisc.edu>)  
 B47 Bascom Hall  
 Madison, WI 53706  
 Send us an email ([cae@saa.ls.wisc.edu](mailto:cae@saa.ls.wisc.edu))  
 Tel: 608-263-5068

**HONORS**

The L&S Honors Program attracts some of UW–Madison's most talented undergraduates who challenge and learn from each other while working closely with faculty members. By bringing students and professors closer together in small classes and individual research settings, the Honors Program fosters a feeling of community even as students push themselves to explore the very frontiers of knowledge. In addition to traditional course work, most Honors students pursue research projects of their own, and many find this experience so exciting that they go on to earn advanced degrees in the nation's best graduate and professional schools.

**Contact information**

L&S Honors Program (p. 322)

Washburn Observatory  
 1401 Observatory Drive  
 Madison, WI 53706-7116  
 Send us an email ([honors@honors.ls.wisc.edu](mailto:honors@honors.ls.wisc.edu))  
 Tel: 608-262-2984

**MAJOR ADVISING**

Students who are eligible to declare their major should do so as soon as possible. All L&S undergraduate students are expected to declare their major(s) by the time they have earned 86 degree credits. All declared students will be advised by the advisor connect with their particular major/program. For more information about advising in the major, refer to the advising and careers tab for each major/special degree program under the L&S Degrees/Majors/Certificates (p. 286) section of the Guide.

**OTHER ACADEMIC RESOURCES****L&S UNDERGRADUATE ACADEMIC DEANS' SERVICES**

Academic deans provide up-to-date information on college policies, procedures, and deadlines; campus resources; and degree requirements. Academic deans also offer limited academic advising and make decisions regarding exceptions to college policy. They work closely with advising staff in L&S Academic Advising Services, department advisors, and other student service personnel on the UW–Madison campus. In an institution as diverse as the University of Wisconsin–Madison, students have a wide range of values, interests, and skills.

Moreover, as they progress through an academic program, their questions and concerns often change. Therefore, students are encouraged to seek the help of several different types of academic advisors during their years on campus. The university provides a system of staff and faculty advisors to address these ongoing and changing concerns.

**Contact Information**

L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>)  
 110 Ingraham Hall (<http://www.map.wisc.edu/?initObj=0056&wing=>)  
 1155 Observatory Drive  
 Madison, WI 53706-1319  
 Send us an email ([lsdeans@saa.ls.wisc.edu](mailto:lsdeans@saa.ls.wisc.edu))  
 Tel: 608-262-0617

**ADVISING IN THE MAJOR**

Juniors, seniors, and any other students who are preparing for, or have declared, a major or are contemplating a major in the College of Letters and Science, are encouraged to meet with an advisor in that major department. Each department has a faculty or staff member who serves as a department advisor. This person knows about prerequisites to courses, program planning for students majoring in the department, major requirements, and in some cases, general career information related to the field. A department advisor can help students make satisfactory progress toward completing requirements in the major, and can suggest courses that address students' interests and help them achieve their goals.

Juniors and seniors are encouraged to seek advice from these department advisors as soon as possible. **Please note that the assignment of a departmental advisor and declaring a major in a**



**particular department(s) are not automatic. Students must go to the department office to declare their major and to be assigned a departmental advisor for the major.** Students are also advised to meet with departmental advisors early in their academic career since some majors require students to fulfill prerequisite classes and earn a minimum GPA in the designated coursework before they are eligible to declare the specific major. It is very important that students contact the major department(s) as early as possible so they are aware of any prerequisites.

Transfer students often come to the campus knowing their intended major. These students may go directly to the department advisors for any help they need in pursuing/declaring the major.

Students classified in any of the special degree programs (Applied Mathematics, Engineering and Physics, Journalism, Music, Social Work) may refer to the specific special degree under Degree/Majors/Certificate (p. 286) tab within this Guide for names of professors associated with the various programs, then consult with the appropriate advisor.

Students pursuing Honors in the Major (HM) are encouraged to work closely with the honors coordinator in their major department regarding course and research opportunities within the department or field of interest. Special departmental advisors are available to help any students, primarily sophomores, juniors, and seniors, who have decided on their major. These advisors are located in department offices throughout the campus. Office hours vary among departments. Consult a staff telephone directory for a list of department offices and locations, or see the department descriptions in this catalog.

## CAREER INITIATIVE AND CAREER SERVICES

L&S Career Initiative and Career Services (<http://careers.ls.wisc.edu/students.htm>), 1305 Linden Drive, Suite 205 Middleton Building, 608-262-3921.

At the College of Letters & Science (L&S) Career Initiative and Career Services (CICS), career advisors work with students from the time they are interested in exploring career options through preparing and conducting a successful job search or graduate school application—in other words, from freshman year through one year after graduation. Don't hesitate to get started early! We help students reflect and capitalize on their academic skills, explore and try out occupations, participate in internships, and network with professionals in the field. In addition to traditional resume and interview services, CICS offers one-on-one advising, career and internship courses, occupation-specific advising and resources, the L&S Badger Internship Program, internship scholarships, a mentoring program, and much more. Together we can develop a plan and the tools you need to achieve your goals!

## INTERNATIONAL INTERNSHIP PROGRAM (IIP)

The International Internship Program (IIP) (<http://internships.international.wisc.edu>) at UW–Madison is a resource for undergraduate students from all disciplines seeking to gain hands-on international experience. IIP's mission is to identify, cultivate and promote high quality internships that advance the professional training of UW–Madison undergraduate students; foster global competency; and reinforce academic learning through practical application.

IIP cultivates internship opportunities around the world specifically for Badgers. IIP also identifies and promotes existing international

internship and research opportunities offered by other campus offices or international organizations. Both types of opportunities can be found via the IIP database and other search resources are also listed on the website. IIP offers advising for any undergraduates who are exploring internships abroad whether they are just getting started, applying to an IIP-cultivated position, or finding their own. IIP can help with questions related to the many questions that come up with international internships including visas, agreements, academic credit, and scholarships.

The Worldwide Internship Program (WIP), a partnership with International Academic Programs (IAP), is a program for students interning outside their home countries to earn academic credit through an online course via which they engage with other UW–Madison students interning around the world. WIP offers students interning abroad structure through academic reflection, insurance and emergency support and may help with eligibility for visas or scholarships. IIP works with students doing internships for credit or not and offers advising, pre-departure and re-entry programming for any student interning abroad.

An international internship is often located outside the United States, but IIP also promotes internship opportunities to apply international skills and interests domestically. There are many variables in international internships (compensation, duration, location, fees, credit and more) that IIP can help navigate.

For more information on interning abroad visit International Internship Program (IIP) (<http://internships.international.wisc.edu>) or call or e-mail ([internships@international.wisc.edu](mailto:internships@international.wisc.edu)) to discuss how IIP can support departments or students.

### Contact Information

International Internship Program (IIP) (<http://internships.international.wisc.edu>)

261 Bascom Hall  
500 Lincoln Drive  
Madison, WI 53706-1314  
Tel: 608-262-2851

Send us an email ([internships@international.wisc.edu](mailto:internships@international.wisc.edu))

## PRE-PROFESSIONAL STUDY

General information about Pre-Law and Pre-Health is located at pre-professional (p. 17) study.

## SCHOLARSHIPS

The College of Letters & Science welcomes incoming and continuing students to apply for scholarship opportunities created by the support of our donor friends. The undergraduate scholarships program provides support to students who intend to receive a degree from the College of Letters & Science. With over 63 majors and special degree programs which include journalism, music, social work, and applied mathematics, engineering, and physics (p. 286), the College of Letters & Science (L&S) strongly supports the role of a broad and deeply educated citizenry. Letters & Science graduates use this strong foundation to flourish in their chosen careers (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>). For more information, see overview of scholarships (<http://scholarships.ls.wisc.edu>).

## STUDENT ACADEMIC AFFAIRS (SAA) ADVISING & ACADEMIC PROGRAMS AND SERVICES

General academic questions: Academic Help Line, 608-262-5858

**Academic Information Management (AIM)**

13 Ingraham Hall, 608-262-2007

Provides several services such as accurate curriculum audit and degree progress information to students, advisors, and other stakeholders

Center for Academic Excellence (<http://cae.ls.wisc.edu>)

B47 Bascom Hall, 608-263-5068

Advising, academic support, advocacy, and community connections for first-generation, low-income, and multicultural underrepresented students within the College of Letters &amp; Science

College of Letters & Science Academic Advising Services (AAS) (<http://advising.ls.wisc.edu>)

155 Middleton Building, 1305 Linden Drive, 608-262-5858

Provides comprehensive advising services for students investigating and preparing for majors in the College of Letters &amp; Science

Cross-College Advising Service (CCAS) (<http://www.ccas.wisc.edu>) [a part of the Office of Undergraduate Advising under the Provost Office]

10 Ingraham Hall, 608-265-5460

Undecided students exploring options

L&S Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>)

110 Ingraham Hall, 1155 Observatory Drive, 608-262-0617

Provides up-to-date information on college policies, procedures, and deadlines; campus resources; and degree requirements

L&S Career Services (L&S) (<http://careers.ls.wisc.edu/students.htm>)

1305 Linden Drive, 2nd Floor, 608-262-3921

Career advising and development for students and alumni in L&amp;S

L&S Honors Program (<http://honors.ls.wisc.edu>)

Washburn Observatory, 1401 Observatory Drive, 608-262-2984

Students admitted to or interested in the Honors Program

Undergraduate Research Scholars (URS) (<http://urs.ls.wisc.edu>)

313 Red Gym, 716 Langdon Street, 608-890-3696

Helps first- and second-year undergraduates get hands-on experience in research

**STUDY ABROAD**

About 25% of undergraduates make study abroad an integral part of their UW–Madison experience.

International Academic Programs (IAP) (<https://www.studyabroad.wisc.edu>) at UW–Madison offers over 200 study

abroad options in about 60 countries on 6 continents. In addition to taking the opportunity to learn new languages, understand new cultures and see the world, UW–Madison students study abroad to complement their on-campus academic goals, strengthen their professional potential and enrich their personal lives.

Students of all academic levels and majors study abroad. While many programs include language training—from the basics to full language immersion—most IAP programs have no language requirement and include courses taught in English.

All courses taken abroad through IAP count as “in-residence” credit, just like taking courses on campus at UW–Madison, so students advance towards their degrees while abroad. And study abroad isn't limited to classroom experience. Many students also complete internships, do research, fieldwork and service learning.

In addition to resources on health, safety, academic planning and other aspects, UW–Madison students receive the information and guidance they need to plan a study abroad experiences that fits their budgets. Many study abroad programs cost about the same or less than studying on campus, and student financial aid can be applied in most cases.

While IAP offers programs to students of all majors, including to students in the College of Agricultural and Life Sciences in collaboration with the CALS International Programs office, the College of Engineering and the School of Business also offer programs tailored specifically to the needs of their students. All of these program options are listed here (<https://www.studyabroad.wisc.edu/programs>).For more information on study abroad at UW–Madison (p. 289), see Study Abroad (<http://studyabroad.wisc.edu>) or call 608-265-6329.**UNDERGRADUATE RESEARCH SCHOLARS PROGRAM**The Undergraduate Research Scholars program (URS) is dedicated to enhancing the academic experience of UW–Madison students by providing first and second year undergraduates with opportunities to earn credit for participating in the research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities. Please refer to Undergraduate Research Scholars (<http://urs.ls.wisc.edu>) for more information.**HONORS****L&S HONORS PROGRAM**The College of Letters & Science Honors Program seeks to provide students with a small, liberal arts college experience within this large university. The Honors Program is home to more than 1,200 motivated, curious and high-achieving students, all pursuing one of three degree tracks: Honors in the Liberal Arts, Honors in the Major, or Comprehensive Honors—the highest undergraduate degree awarded by the college. In addition to an enhanced curriculum that offers small, faculty-led courses, the program also offers academic advising services; grants, scholarships, and awards; and many professional development and co-curricular opportunities. Events, term-specific deadlines, course descriptions for the upcoming semester and much more can be found on the L&S Honors Program website (<http://honors.ls.wisc.edu>). We welcome inquiries via phone at-608)262-2984. The L&S Honors Program is located in the historic Washburn Observatory at 1401 Observatory Drive in Madison, WI 53706.**HOW TO GET IN**

Students may apply to enter the L&amp;S Honors Program in any semester of their undergraduate careers. Any UW–Madison Honors credits earned before admission to the Honors Program may be applied toward Honors degree requirements. Eligibility criteria and admissions procedures differ for the different Honors degrees.

**ADMISSION TO HONORS IN THE LIBERAL ARTS (HLA)**

To become a candidate for the Honors in the Liberal Arts degree, a student must apply directly to the L&amp;S Honors Program. Students may

apply at any point in their undergraduate careers provided they meet the eligibility requirements described below.

All students admitted to the university and to the College of Letters & Science are invited to apply to be considered for admission to the Honors Program to pursue the Honors in the Liberal Arts degree. Interested students can apply via an online application form. Students receive an invitation message by email that contains the URL to the online application. The application deadline will be 30 days from the student's initial login to the application system. Admission to the program is competitive, and space is limited.

Continuing and transfer students with a cumulative grade point average of 3.300 or above who are currently enrolled at UW–Madison or who are transferring to UW–Madison from another college or university may apply to the L&S Honors Program at any time. Applications are available from the Honors Program website (<http://honors.ls.wisc.edu>) and admission decisions are usually made within three weeks of submission of the completed application and supporting materials. While continuing or transfer students having 60 or more credits at the time of application to the Honors Program are eligible to participate in the Honors in the Liberal Arts (HLA) degree track, they are encouraged to consider Honors in the Major (HM) as an option (see below), since they may find it difficult to complete the HLA degree requirements if beginning that program in the junior or senior year.

## ADMISSION TO HONORS IN THE MAJOR (HM)

Students interested in pursuing an Honors in the Major degree are encouraged to consult the department listings (p. 286) in this Guide and speak with the department's academic advisors, who will be able to explain admissions procedures and requirements for the degree. After officially declaring the major and receiving authorization from the department to declare Honors in the Major, students must submit a completed Honors in the Major Declaration Form to the Honors Program office. These forms may be obtained from either the departmental advisor or the Honors Program office.

## REQUIREMENTS

Honors may be earned in any L&S undergraduate degree (Bachelor of Arts; Bachelor of Science; Bachelor of Science–Applied Mathematics, Engineering, and Physics; Bachelor of Arts–Journalism or Bachelor of Science–Journalism; Bachelor of Music; and Bachelor of Social Work). For students who complete the requirements, Honors will appear on diplomas and transcripts (for example, B.A. with Honors in the Liberal Arts or B.S. with Honors in the Major).

### HONORS IN THE LIBERAL ARTS (HLA)

Honors in the Liberal Arts is often the primary focus for most first- and second-year Honors students. It requires students earn Honors credits in a breadth of disciplines and is meant to enrich and enhance a student's academic experience outside of the major. Students who complete this curriculum develop strong skills in communication, critical thinking and complex problem solving, which will serve them well regardless of career path. The specific requirements for the HLA degree are:

1. completion of the L&S general degree requirements;
2. a cumulative grade point average of at least 3.300;
3. completion of at least 24 credits in Honors courses with grades of B or better;
4. of the 24 Honors credits, at least 6 must be in the humanities, 6 in the social sciences, and 6 in the natural sciences; and

5. of the 24 Honors credits, at least 15 must be "automatic Honors" credits—that is, in courses that carry the "Honors Only" or "Accelerated Honors" designations in the Course Guide (<http://public.my.wisc.edu>).

### HONORS IN THE MAJOR (HM)

After formally declaring a major in the College of Letters & Science, students may opt to pursue Honors in that major. Honors in the Major requirements can be completed independently from Honors in the Liberal Arts; they may also be completed in conjunction with Honors in the Liberal Arts (which would result in a Comprehensive Honors degree). Each academic department and program in the college, with approval of the Faculty Honors Committee, establishes its own requirements for the Honors in the Major degree. Honors in the Major is intended for students who are interested in original research and who wish to graduate with the best possible undergraduate training in the discipline. Honors in the Major is especially appropriate for students who are considering graduate work, or who want a particularly rigorous training in research, reasoning, and writing skills useful to a wide range of career choices.

Although many of the specific requirements for HM vary by department, all students pursuing Honors in the Major must:

1. complete the L&S general degree requirements;
2. complete the regular major requirements;
3. obtain an overall cumulative grade point average of at least 3.300;
4. earn a grade of B or better in all courses counting towards Honors in the Major requirements; and
5. successfully complete a capstone experience during their senior year, typically a Senior Honors Thesis (see below for more information).

In addition to these collegewide requirements, Honors in the Major students may be required to complete additional upper-level, honors coursework; participate in department research colloquia; and meet a minimum grade point average in all classes in the major (typically between 3.300 and 3.500).

As mentioned above, most departments require a Senior Honors Thesis as the culmination of their Honors in the Major curriculum. In departments for which a research thesis is not the most appropriate capstone, an alternative such as a performance, a professional practicum, or a major piece of creative writing may be required instead. The two-semester Honors thesis or capstone project is often the most challenging part of the Honors in the Major experience, and for most students it also proves to be the most rewarding. The Senior Honors Thesis is a two-semester (or summer and semester) effort; students first enroll in Senior Honors Thesis 681, followed the next term by Senior Honors Thesis 682 (some departments may use different numeric designations for Senior Honors Thesis options). These two courses may not be taken concurrently. The final grade for the entire thesis is assigned after 682 has been completed.

Students who intend to complete Honors in the Major and write a Senior Honors Thesis should consult with department advisors as early as possible. They are also strongly encouraged to begin working with a faculty advisor no later than the beginning of the junior year in order to formulate a research topic, which will enhance the student's potential for success in research grant funding cycles for their senior year. Some departments offer special courses designed to facilitate the organization, planning, and execution of Honors thesis projects. Other departments encourage (and some require) students to take a directed study or tutorial course with the thesis advisor sometime during the junior year. Students

who receive funding from the L&S Honors Program for their thesis research should submit an unbound copy of their thesis to the Honors Program Office.

Students pursuing Honors in the Major in two majors may apply for Dual Thesis Authorization, which will allow them to write one interdisciplinary thesis to satisfy both major capstone requirements. Please see the Honors Program Associate Director for Academic Services to learn more about the application process prior to enrolling in the 681 course.

Prior authorization is needed when students intend to complete either 681 or 682 while away from UW-Madison. Consult with the associate director for academic services if this is your intention.

## COMPREHENSIVE HONORS

Students who complete the requirements for both Honors in the Liberal Arts and Honors in the Major in at least one department or program earn Comprehensive Honors, the highest undergraduate degree awarded by the College.

## HOW TO EARN HONORS CREDIT

There are three unique Honors course designations, each described here:

- "Honors Only" courses are reserved for Honors candidates. They are generally small classes, led by a faculty member and designed for substantive engagement, or discussion sections or labs reserved for Honors students in larger non-Honors lecture courses. The enrollment system will automatically assign Honors credit to all enrolled students. These "Honors Only" courses are sometimes denoted with the symbol "H".
- "Accelerated Honors" are open to all students. Honors credit is awarded in recognition of the rigor and pace of the course. These Honors courses are often conducted at a faster pace than the non-Honors course counterparts or are upper-level capstone courses in a major that require significant engagement with the course material. As with "Honors Only" designated courses, the enrollment system will automatically assign Honors credit to all enrolled students. These "Accelerated Honors" courses are sometimes denoted with the symbol "!".
- "Honors Optional" designates courses for which Honors is available through an optional Honors component of the course curriculum. These courses are open to all students for enrollment. Opting into the Honors component of the course is done through Student Center. Students enrolled in an "Honors Optional" course are advised to consult with the instructor during the first weeks of the term to determine the Honors curriculum if it is not outlined on the syllabus. Instructors either have designated Honors curricula or students may be encouraged to develop a project idea of their own. These "Honors Optional" courses are sometimes denoted with the symbol "%".

When the Schedule of Classes is published for the upcoming term, students can use Course Guide to identify which courses are being offered for Honors and with which designation. A course being offered for Honors in a past term in no way guarantees that it will be offered for Honors in a future term.

Honors candidates may also earn Honors credit through the following methods:

- Designing and successfully completing an additional Honors project for a course not carrying any of the Honors designations above in the given term. This option requires consent of the instructor and

approval of the L&S Honors Program. To request permission from the Honors Program, students must submit a completed Green Sheet Agreement form and all supporting documentation to the Honors Program office no later than the eighth week of a regular semester, or the fourth week of an eight-week summer term. Green Sheets are available on the Honors Program website (<http://honors.ls.wisc.edu>). Supporting documentation includes a formal proposal outlining the additional Honors project in up to 500 words, and a completed Course Change Request Form. Additional information is available from Honors advisors and on the Honors Program website.

- Students who study abroad on a non-Honors study abroad program may petition to receive up to 4 Honors credits per semester (one course). Upon returning from abroad, students are asked to write a petition in which they are required to reflect on the nature of the course taken abroad and explain why that the course meet the desired criteria for general Honors credit, Honors breadth credit and/or automatic Honors credit. For more details about the petition process, please consult the Honors Program website (<http://honors.ls.wisc.edu>).
- Studying abroad in an Honors Study Abroad Program. (Currently programs are available in Ecuador and Utrecht, Netherlands.) Students may earn up to 16 honors credits. Students receive Honors credit in these cases through the study abroad equivalency process upon their return from abroad.

In all cases, to receive Honors credit in a course, students must earn a final grade of B or higher in that course. If a grade of BC or lower is earned in an Honors course, the Honors notation remains on the student's record, but the course does not count toward Honors degree requirements. If the course is retaken for Honors, regardless of the grade earned during this second attempt, the course cannot satisfy an Honors degree requirement.

Students may not receive Honors credit in courses carried on a pass/fail basis.

## ADVISING AND CAREERS

The University of Wisconsin-Madison can seem overwhelming because of its size and the complexity of its policies and procedures. Academic advisors help students get (and maintain) their bearings on campus. The L&S Honors Program has a team of specially trained academic and peer advisors who accompany and support Honors candidates as they pursue diverse educational and co-curricular experiences compatible with their long-term goals. Advising occurs through a variety of formats including small group workshops, individual appointments, drop-in hours and email. Additional information is available on the Honors Program website (<http://honors.ls.wisc.edu>).

The L&S Honors Program encourages our students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help students leverage the academic skills learned in your major(s) and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, regardless of major or career goals.

## PEOPLE

Faculty Director: Dr. Sabine Gross, Chair of L&S Faculty Honors Committee and Professor of German

Associate Director for Administration: Dr. Matt Kohlstedt

Associate Director for Academic Services: Jacqui Guthrie

Program Administrator: Erin Warner

## POLICIES

### CRITERIA FOR REMAINING IN GOOD STANDING IN HLA

Students must obtain a grade point average of 3.300 or higher to be eligible to graduate with an Honors in the Liberal Arts degree. As such, we encourage students to strive for at least this GPA each academic term. The Honors Program advising team will work with students on an improvement plan should their GPA drop below 3.300. Students must also make satisfactory progress toward degree requirements, meaning:

1. successfully complete (grade of B or higher) at least one Honors course (any designation) by the end of the third semester on campus and
2. successfully complete (grade of B or higher) at least two automatic Honors courses by the end of the fifth semester on campus.

Students may withdraw from HLA at any time by completing an Honors in the Liberal Arts Withdrawal Form, available from the Honors Program office, and submitting it to the Honors Program.

### CRITERIA FOR REMAINING IN GOOD STANDING IN HM

Because each department sets its own criteria for the HM degree program, students are encouraged to work closely with departmental advisors to stay on track towards successful completion. In addition to the criteria established by individual departments, all students must obtain a cumulative grade point average of 3.300 or higher in UW–Madison coursework to be eligible to graduate with the Honors in the Major degree. Students may withdraw from HM at any time by submitting a completed Honors in the Major Withdrawal Form, available from either the department advisor or the Honors Program Office.

### HONORS IN THE INDIVIDUAL MAJOR

To complete the Individual Major with Honors, the student must earn Honors credit in at least 20 of the 36 or more credits comprising the Individual Major and must complete a Senior Honors Thesis of 6–8 credits. Students wishing to complete an Honors in the Major degree with an Individual Major should append to their Individual Major proposal a specific outline of how the Honors in the Major requirements would be met, including appropriate Honors-caliber courses, upper-level seminars, and a two-semester capstone project, typically a Senior Honors Thesis. The proposal for Honors in the Individual Major will be reviewed by the Honors Program Associate Director for Academic Services. This individual is authorized to determine whether requests for exceptions to the approved HM requirements will be approved.

### HONORS TRANSFER CREDIT

Honors credit earned at other institutions is not currently accepted towards L&S Honors Program degree requirements.

## GRANTS AND AWARDS

The L&S Honors Program strives to support Honors students as they pursue original research, study abroad, attend academic conferences, and pursue other endeavors that complement their learning and growth. The following funding opportunities are regularly offered. Please see the L&S Honors Program website (<http://honors.ls.wisc.edu>) for additional opportunities, specific deadlines and additional information about the applications process.

### WELTON SOPHOMORE SUMMER HONORS RESEARCH APPRENTICESHIPS

These competitively awarded grants provide funding for honors students who learn more about the research process by working as research apprentices with UW–Madison faculty. Students may not earn course credit for this work. For past students, these apprenticeships often evolved into paid research positions and/or Senior Honors Thesis projects. Applications for the Welton are submitted and considered early in the spring term.

### TREWARTHA UNDERGRADUATE THESIS RESEARCH AWARD

This grant enables Honors students to undertake more demanding and extensive Honors Senior Thesis research projects than might otherwise be possible. Besides recognition of an excellent thesis proposal, grant recipients receive funds (up to \$1500) to cover travel expenses and other costs needed to complete the research. These resources may enable students to travel to archives or research sites, or to initiate other research activities that require special funding. Each year 12–16 Trewartha awards are awarded. Applications for the Trewartha are submitted and considered during the fall term.

### MARK MENSINK HONORS RESEARCH GRANT

The Mark Mensink Honors Research Grant is the L&S Honors Program's most prestigious grant, awarded in recognition of an exceptional thesis proposal. The purpose of the grant is to enable its recipient to undertake more demanding and extensive Honors senior thesis research than might otherwise be possible due to limited resources or time. Students do not apply specifically for the Mensink award. The Mensink is awarded to a particularly promising Trewartha applicant.

### HONORS SUMMER SENIOR THESIS RESEARCH GRANT

These grants enable students to undertake more demanding and extensive senior thesis research projects than might otherwise be possible. Besides recognition of an excellent thesis proposal, grant recipients are awarded a cash stipend of up to \$3000 to cover research-related expenses. Such resources may enable students to travel to archives or research sites, arrange participant interviews or initiate other research activities that require special funding. Applications for summer research grants are submitted and considered during the spring term.

### LEADERSHIP TRUST AWARD

The Leadership Trust Award supports students as they plan, develop and implement projects designed to improve UW-Madison, the community and/or the university student body. Each year, up to two (2) students receive awards equal to two (2) semesters of resident, full-time tuition plus project funds up to \$3000 as justified in the submitted project budget. Past award recipients have established mentoring programs for underrepresented students; collaborated with local organizations to improve community access to fresh, healthy and local produce; and founded an academic journal, the Madison Journal of Literary

Criticism, to increase students' opportunities to see their work published. Applicants are asked to identify a UW-Madison faculty member who will serve in an advisory/resource capacity and award winners are expected to submit progress reports to the L&S Faculty Honors Committee. Applications for the Leadership Trust Award are submitted and considered during the spring term for the following academic year.

### STUDY ABROAD AWARDS

Up to four \$1,500 travel awards will be awarded to eligible L&S Honors Program students who plan to study abroad. Students studying for either a semester or a year abroad are eligible, however preference will be given to students participating in a year-long program. Applications for this funding opportunity are available in the spring term.

### BROMLEY RESEARCH CONFERENCE TRAVEL GRANT

These awards are meant to support students who present at and/or attend regional or national professional conferences. Priority is given to those who plan to present. The award amount is up to \$500. The application process is competitive and; students with the most promising proposals are selected.

## AFRICAN CULTURAL STUDIES

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans around the world. This includes work at the graduate and undergraduate levels, and emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines.

Undergraduates study one of six languages offered by the department—Arabic, Hausa, Swahili, Wolof, Yoruba, and Zulu—and combine their language study with popular courses in the humanities, literature, and ethnic studies. The department's undergraduate courses cover a wide range of topics, including introductory African literature and storytelling, contemporary cinema and music, and social issues. Students also have the opportunity to study less commonly taught African languages through the self-study methodology program, which enables independent learning of a language through supportive, peer-to-peer and instructor-led coursework.

Majors are encouraged to study abroad in Africa during their undergraduate careers. Study abroad programs sponsored by UW—Madison include semesters or full years in Morocco, Senegal, South Africa, Ghana, and other African nations. Other programs are available through different institutions. See International Academic Programs (<http://www.studyabroad.wisc.edu>).

For more information, students should feel free to contact the Department of African Cultural Studies (<http://african.wisc.edu>) department or the advisor (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjFjFEtG.html>) at any time.

### DEGREES/MAJORS/CERTIFICATES

- African Languages and Literature, B.A. (p. 326)
- African Languages and Literature, B.S. (p. 331)

## PEOPLE

### FACULTY

Matthew H. Brown

Névine El Nossery (<http://african.wisc.edu/faculty/elnoosery>)

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Aliko Songolo (<http://african.wisc.edu/faculty/songolo>)

### ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Academic Advisor/Student Services Coordinator

## AFRICAN LANGUAGES AND LITERATURE, B.A.

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans around the world. This includes work at the graduate and undergraduate levels, and emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines.

Undergraduates study one of six languages offered by the department—Arabic, Hausa, Swahili, Wolof, Yoruba, and Zulu—and combine their language study with popular courses in the humanities, literature, and ethnic studies. The department's undergraduate courses cover a wide range of topics, including introductory African literature and storytelling, contemporary cinema and music, and social issues. Students also have the opportunity to study less commonly taught African languages through the self-study methodology program, which enables independent learning of a language through supportive, peer-to-peer and instructor-led coursework.

Majors are encouraged to study abroad in Africa during their undergraduate careers. Study abroad programs sponsored by UW–Madison include semesters or full years in Morocco, Senegal, South Africa, Ghana, and other African nations. Other programs are available through different institutions. See International Academic Programs (<http://www.studyabroad.wisc.edu>).

For more information, students should feel free to contact the Department of African Cultural Studies (<http://african.wisc.edu>) department or the advisor (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjFjFEtG.html>) at any time.

## HOW TO GET IN

Declaring the major in African languages and literature is as easy as meeting with the advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjFjFEtG.html>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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Minimum GPAs	30 credits in residence after the 90th credit
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Minimum GPAs	2.000 in all coursework at UW–Madison
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Minimum GPAs	2.000 in intermediate/advanced coursework at UW–Madison
--------------	---

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

Principal African languages taught by the department are Arabic, Swahili, Yoruba, and Zulu. The program supports the study of various other African languages, through courses and/or individualized study.

### REQUIREMENTS FOR THE MAJOR

30 credits and eight courses as follows:

#### LANGUAGE

Code	Title	Credits
<b>4th unit of one African language</b>		<b>4</b>
AFRICAN/ LCA LANG 324	Fourth Semester Arabic	
AFRICAN 334	Fourth Semester Swahili	

AFRICAN 338	Fourth Semester-A Language of Southern Africa
AFRICAN 354	Fourth Semester Xhosa
AFRICAN 374	Fourth Semester Yoruba
AFRICAN 394	Fourth Semester-A Language of West Africa

Total Credits 4

## CULTURE STUDIES

Code	Title	Credits
AFRICAN 100	Introduction to African Cultural Expression	3

**One 200-level course:** 3-4

AFRICAN 201	Introduction to African Literature
AFRICAN/ FOLKLORE 210	The African Storyteller
AFRICAN 211	The African Autobiography
AFRICAN 212	Introduction to African Popular Culture
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal
AFRICAN 230	Introduction to Yoruba Life and Culture
AFRICAN 231	Introduction to Arabic Literary Culture
AFRICAN 232	Introduction to Swahili Cultures
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction

AFRICAN 403 Theories of African Cultural Studies 3

AFRICAN 405 Topics in African Cultural Studies 3

**One from:** 3-4

AFRICAN 300	African Literature in Translation
AFRICAN 301	Introduction to African Linguistics
AFRICAN 303	African Literature and Visual Culture
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture
AFRICAN 402	Theory of African Literature
AFRICAN 406	Topics in African Literature
AFRICAN 407	Topics in African Languages
AFRICAN/ FOLKLORE 411	African Poetry
AFRICAN 412	Contemporary African Fiction

AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama
AFRICAN/ FRENCH 440	African/Francophone Film
AFRICAN/ PORTUG 451	Lusophone African Literature
AFRICAN 453	Modern African Literature in English
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word
AFRICAN 500	Language and Society in Africa
AFRICAN 501	Structure and Analysis of African Languages

**One course outside the department or 6th unit of African language** 3-4

### Outside courses:

AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER 302	Undergraduate Studies in Afro-American History
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
ANTHRO 333	Prehistory of Africa
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
ART HIST 479	Art and History in Africa
ART HIST 579	Proseminar in African Art
ECON/A A E 477	Agricultural and Economic Development in Africa
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
GEOG 355	Africa, South of the Sahara
HISTORY 201	The Historian's Craft (Roman Africa)
HISTORY 278	Africans in the Americas, 1492-1808
HISTORY 279	Afro-Atlantic History, 1808-Present
HISTORY 377	History of Africa, 1500 to 1870
HISTORY 378	History of Africa Since 1870
HISTORY 444	History of East Africa
HISTORY 445	History of Equatorial Africa
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas
POLI SCI 329	African Politics



POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
POLI SCI 455	African International Relations
PORTUG/ AFRICAN 451	Lusophone African Literature
<i>6th-unit language courses:</i>	
AFRICAN 436	Advanced Studies in Swahili Language-Readings
AFRICAN/ LCA LANG 446	Readings in Advanced Arabic Texts
AFRICAN 476	Sixth Semester Yoruba
AFRICAN 494	Sixth Semester, A Language of Southern Africa
AFRICAN 496	Sixth Semester, A Language of Northern Africa
AFRICAN 498	Sixth Semester, A Language of West Africa
Total Credits	18-21

## ELECTIVES

Credits in any AFRICAN Language or Culture Studies course (listed above) or any of the following courses to achieve 30 credits and eight courses in the major.

Code	Title	Credits
AFRICAN/ LCA LANG 323	Third Semester Arabic	4
AFRICAN 333	Third Semester Swahili	4
AFRICAN 337	Third Semester-A Language of Southern Africa	4
AFRICAN 353	Third Semester Xhosa	4
AFRICAN 373	Third Semester Yoruba	4
AFRICAN 475	Fifth Semester Yoruba	3
AFRICAN 491	Fifth Semester, A Language of Central Africa	3
AFRICAN 493	Fifth Semester, A Language of Southern Africa	3
AFRICAN 495	Fifth Semester, A Language of Northern Africa	3
AFRICAN 497	Fifth Semester, A Language of West Africa	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all AFRICAN and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in AFRICAN, taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the African Languages and Literature Major in consultation with the African Languages and Literature undergraduate advisor. To be admitted to the Honors Program in African Languages and Literature, students must have achieved a 3.300

university GPA and a 3.300 GPA in all AFRICAN courses as well as all courses accepted in the major.

### Honors in the African Languages and Literature Major Requirements

To earn a B.A. or B.S. with Honors in the Major in African Languages and Literature students must satisfy both the requirements for the major (above) and the following additional requirements:

1. Earn a 3.300 overall university GPA
2. Earn 3.300 GPA in all AFRICAN courses, and all courses accepted in the major
3. Complete a minimum of 15 credits in the major for Honors while in residence at UW–Madison from the following:
  - a. 9 credits in courses no lower than 200 level
  - b. A two-semester Senior Honors Thesis in AFRICAN 681 Senior Honors Thesis and AFRICAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Content) Students will be able to identify canonical authors and texts, historical forms, genres, and structures, as well as aesthetic and cultural concerns in Africa and its diasporas.
- (Content) Students will demonstrate their understanding of major theories, approaches, concepts, and current and classical research findings in African and diaspora literary and cultural studies.
- (Content) Students will develop a level of proficiency in the different "ways of knowing" Africa and the diaspora through language, literatures, and cultures.
- (Research Skills) Students will understand their own learning processes and possess the capacity to intentionally seek, evaluate, and learn from information, and recognize and reduce bias in their thinking.
- (Research Skills) Students will effectively retrieve and comprehend primary sources in English and African languages, and secondary sources from a range of disciplines.

- (Communication Skills) Students will develop or improve speaking, listening, writing, and reading skills in an African language, and integrate these skills to communicate effectively.
- (Communication Skills) Students will communicate effectively through essays, oral presentations, and discussion, so they may share their knowledge, wisdom, and values with others across social and professional settings.
- (Communication Skills) Students show knowledge of conventional rhetorical strategies, and integrate research by other authors while distinguishing between their own ideas and those of others.
- (Communication Skills) Students will write and speak across disciplinary boundaries with regard to existing research about Africa and the diaspora in the humanities and social sciences.
- (Analytic Skills) Students will discuss cultural texts from various theoretical and critical perspectives, formulate ideas and make connections between literary/cultural concepts and themes.
- (Analytic Skills) Students will demonstrate command of the terminology and methodologies of cultural studies, construct complex arguments, and use primary and secondary sources to support arguments.

## ADVISING AND CAREERS

### ADVISING

#### How does the major in African languages and literature fit into my educational goals?

While there are a wide variety of reasons to visit your major advisor, there seem to be two recurring questions:

1. Can I complete the major during the time I have left at UW?
2. Which classes will be offered in the future?

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Contemporary Arabic Literature and Culture* and *Global HipHop and Social Justice* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style—e.g., do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about graduate school

- Proofreading resumes and cover letters

Ready to meet with the ACS advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

### CAREERS

While many students have a difficult time believing it, a humanities major such as ours, enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills majors develop is **language acquisition**. Your study of African languages sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of these less commonly taught languages shows discipline and perseverance, since they can be difficult languages to learn.

Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career!

Visit our website (<http://african.wisc.edu/programs/undergraduate/careers-skill-development>) for more information.

## PEOPLE

### FACULTY

Matthew H. Brown

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Aliko Songolo (<http://african.wisc.edu/faculty/songolo>)

## ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Academic Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### RESOURCES FOR LANGUAGE LEARNERS

One of the most valuable resources for students interested in language study is the Language Institute and its website, Languages at UW–Madison (<http://www.languages.wisc.edu>).

Learn more about scholarships (<http://www.languages.wisc.edu/beyond/scholarships>) and other opportunities for funded language study.

## AFRICAN LANGUAGES AND LITERATURE, B.S.

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans around the world. This includes work at the graduate and undergraduate levels, and emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines.

Undergraduates study one of six languages offered by the department—Arabic, Hausa, Swahili, Wolof, Yoruba, and Zulu—and combine their language study with popular courses in the humanities, literature, and ethnic studies. The department's undergraduate courses cover a wide range of topics, including introductory African literature and storytelling, contemporary cinema and music, and social issues. Students also have the opportunity to study less commonly taught African languages through the self-study methodology program, which enables independent learning of a language through supportive, peer-to-peer and instructor-led coursework.

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For more information, students should feel free to contact the Department of African Cultural Studies (<http://>

[african.wisc.edu](http://african.wisc.edu)) department or the advisor (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffFEtg.html>) at any time.

## HOW TO GET IN

Declaring the major in African languages and literature is as easy as meeting with the advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffFEtg.html>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
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Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit 2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

Principal African languages taught by the department are Arabic, Swahili, Yoruba, and Zulu. The program supports the study of various other African languages, through courses and/or individualized study.

## REQUIREMENTS FOR THE MAJOR

**30 credits and eight courses** as follows:

### LANGUAGE

Code	Title	Credits
<b>4th unit of one African language</b>		<b>4</b>
AFRICAN/ LCA LANG 324	Fourth Semester Arabic	
AFRICAN 334	Fourth Semester Swahili	
AFRICAN 338	Fourth Semester-A Language of Southern Africa	
AFRICAN 354	Fourth Semester Xhosa	
AFRICAN 374	Fourth Semester Yoruba	
AFRICAN 394	Fourth Semester-A Language of West Africa	
Total Credits		4

### CULTURE STUDIES

Code	Title	Credits
AFRICAN 100	Introduction to African Cultural Expression	3
<b>One 200-level course:</b>		<b>3-4</b>

AFRICAN 201	Introduction to African Literature	
AFRICAN/ FOLKLORE 210	The African Storyteller	
AFRICAN 211	The African Autobiography	
AFRICAN 212	Introduction to African Popular Culture	
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN 231	Introduction to Arabic Literary Culture	
AFRICAN 232	Introduction to Swahili Cultures	
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 403	Theories of African Cultural Studies	3
AFRICAN 405	Topics in African Cultural Studies	3
<b>One from:</b>		<b>3-4</b>
AFRICAN 300	African Literature in Translation	
AFRICAN 301	Introduction to African Linguistics	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 402	Theory of African Literature	
AFRICAN 406	Topics in African Literature	
AFRICAN 407	Topics in African Languages	
AFRICAN/ FOLKLORE 411	African Poetry	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ PORTUG 451	Lusophone African Literature	
AFRICAN 453	Modern African Literature in English	
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	
AFRICAN 500	Language and Society in Africa	
AFRICAN 501	Structure and Analysis of African Languages	
<b>One course outside the department or 6th unit of African language</b>		<b>3-4</b>

*Outside courses:*

AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER 302	Undergraduate Studies in Afro-American History
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
ANTHRO 333	Prehistory of Africa
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
ART HIST 479	Art and History in Africa
ART HIST 579	Proseminar in African Art
ECON/A A E 477	Agricultural and Economic Development in Africa
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
GEOG 355	Africa, South of the Sahara
HISTORY 201	The Historian's Craft (Roman Africa)
HISTORY 278	Africans in the Americas, 1492-1808
HISTORY 279	Afro-Atlantic History, 1808-Present
HISTORY 377	History of Africa, 1500 to 1870
HISTORY 378	History of Africa Since 1870
HISTORY 444	History of East Africa
HISTORY 445	History of Equatorial Africa
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LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas
POLI SCI 329	African Politics
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
POLI SCI 455	African International Relations
PORTUG/ AFRICAN 451	Lusophone African Literature
<i>6th-unit language courses:</i>	
AFRICAN 436	Advanced Studies in Swahili Language-Readings
AFRICAN/ LCA LANG 446	Readings in Advanced Arabic Texts
AFRICAN 476	Sixth Semester Yoruba
AFRICAN 494	Sixth Semester, A Language of Southern Africa
AFRICAN 496	Sixth Semester, A Language of Northern Africa

AFRICAN 498	Sixth Semester, A Language of West Africa
Total Credits	18-21

## ELECTIVES

Credits in any AFRICAN Language or Culture Studies course (listed above) or any of the following courses to achieve 30 credits and eight courses in the major.

Code	Title	Credits
AFRICAN/ LCA LANG 323	Third Semester Arabic	4
AFRICAN 333	Third Semester Swahili	4
AFRICAN 337	Third Semester-A Language of Southern Africa	4
AFRICAN 353	Third Semester Xhosa	4
AFRICAN 373	Third Semester Yoruba	4
AFRICAN 475	Fifth Semester Yoruba	3
AFRICAN 491	Fifth Semester, A Language of Central Africa	3
AFRICAN 493	Fifth Semester, A Language of Southern Africa	3
AFRICAN 495	Fifth Semester, A Language of Northern Africa	3
AFRICAN 497	Fifth Semester, A Language of West Africa	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all AFRICAN and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in AFRICAN, taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the African Languages and Literature Major in consultation with the African Languages and Literature undergraduate advisor. To be admitted to the Honors Program in African Languages and Literature, students must have achieved a 3.300 university GPA and a 3.300 GPA in all AFRICAN courses as well as all courses accepted in the major.

### Honors in the African Languages and Literature Major Requirements

To earn a B.A. or B.S. with Honors in the Major in African Languages and Literature students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn 3.300 GPA in all AFRICAN courses, and all courses accepted in the major
- Complete a minimum of 15 credits in the major for Honors while in residence at UW–Madison from the following:
  - 9 credits in courses no lower than 200 level

b. A two-semester Senior Honors Thesis in AFRICAN 681 Senior Honors Thesis and AFRICAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Content) Students will be able to identify canonical authors and texts, historical forms, genres, and structures, as well as aesthetic and cultural concerns in Africa and its diasporas.
- (Content) Students will demonstrate their understanding of major theories, approaches, concepts, and current and classical research findings in African and diaspora literary and cultural studies.
- (Content) Students will develop a level of proficiency in the different "ways of knowing" Africa and the diaspora through language, literatures, and cultures.
- (Research Skills) Students will understand their own learning processes and possess the capacity to intentionally seek, evaluate, and learn from information, and recognize and reduce bias in their thinking.
- (Research Skills) Students will effectively retrieve and comprehend primary sources in English and African languages, and secondary sources from a range of disciplines.
- (Communication Skills) Students will develop or improve speaking, listening, writing, and reading skills in an African language, and integrate these skills to communicate effectively.
- (Communication Skills) Students will communicate effectively through essays, oral presentations, and discussion, so they may share their knowledge, wisdom, and values with others across social and professional settings.
- (Communication Skills) Students show knowledge of conventional rhetorical strategies, and integrate research by other authors while distinguishing between their own ideas and those of others.
- (Communication Skills) Students will write and speak across disciplinary boundaries with regard to existing research about Africa and the diaspora in the humanities and social sciences.

- (Analytic Skills) Students will discuss cultural texts from various theoretical and critical perspectives, formulate ideas and make connections between literary/cultural concepts and themes.
- (Analytic Skills) Students will demonstrate command of the terminology and methodologies of cultural studies, construct complex arguments, and use primary and secondary sources to support arguments.

## ADVISING AND CAREERS

### ADVISING

#### How does the major in African languages and literature fit into my educational goals?

While there are a wide variety of reasons to visit your major advisor, there seem to be two recurring questions:

1. Can I complete the major during the time I have left at UW?
2. Which classes will be offered in the future?

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Contemporary Arabic Literature and Culture* and *Global HipHop and Social Justice* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style—e.g., do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading resumes and cover letters

Ready to meet with the ACS advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjfjFEt.html>).

### CAREERS

While many students have a difficult time believing it, a humanities major such as ours, enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills majors develop is **language acquisition**. Your study of African languages sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of these less commonly taught languages shows discipline and perseverance, since they can be difficult languages to learn.

Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career!

Visit our website (<http://african.wisc.edu/programs/undergraduate/careers-skill-development>) for more information.

## PEOPLE

### FACULTY

Matthew H. Brown

Névine El Nossery (<http://african.wisc.edu/faculty/elnoossery>)

Samuel England (<http://african.wisc.edu/faculty/england>)

Jo Ellen Fair (<http://african.wisc.edu/content/jo-ellen-fair>)

Luis Madureira (<http://african.wisc.edu/content/lu%C3%ADs-madureira>)

Mustafa Mustafa (<http://african.wisc.edu/faculty/mustafa>)

Tejumola Olaniyan (<http://african.wisc.edu/content/tejumola-olaniyan-0>)

Ronald Radano (<http://african.wisc.edu/content/ronald-radano>)

Damon Sajnani (<http://african.wisc.edu/faculty/sajnani>)

Michael Schatzberg (<http://african.wisc.edu/content/michael-schatzberg>)

Katrina Daly Thompson (<http://african.wisc.edu/faculty/thompson>)

### FACULTY EMERITUS

Dustin Cowell (<http://african.wisc.edu/faculty/cowell>)

Harold Scheub (<http://african.wisc.edu/faculty/emeriti/scheub>)

Aliko Songolo (<http://african.wisc.edu/faculty/songolo>)

### ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Academic Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### RESOURCES FOR LANGUAGE LEARNERS

One of the most valuable resources for students interested in language study is the Language Institute and its website, Languages at UW–Madison (<http://www.languages.wisc.edu>).

Learn more about scholarships (<http://www.languages.wisc.edu/beyond/scholarships>) and other opportunities for funded language study.

## AFRO-AMERICAN STUDIES

The Department of Afro-American Studies at the University of Wisconsin–Madison offers students an opportunity to study those aspects of black history, culture, and society in ideal interdisciplinary models that reconstruct Afro-American life. It challenges students to critically examine facts and issues that are historically and contemporaneously relevant to the Afro-American experience.

The department offers undergraduate majors in five areas: literature and culture; theater, music and the visual arts; history; Black Women's studies; and inter-group relations. The M.A. program is based on personalized programs of study shaped to meet the needs of individual students, many of whom participate in the "Bridge" programs which enable them to move directly into Ph.D. programs in English and history. Faculty members and students are active in a broad range of activities, including hip-hop programs for at-risk youth, community theater, college classes for low-income adults, and various support activities for the National Voting Rights Museum in Selma, Alabama. The department prides itself on positive working relationships with our colleagues in traditional disciplines as well as the Women's Studies Program and the Department of African Cultural Studies. A vibrant community of scholars and students who believe in the ideal of unity without uniformity, we welcome all those committed to the deeper understanding of race in America and the world.

## DEGREES/MAJORS/CERTIFICATES

- Afro-American Studies, B.A. (p. 335)
- Afro-American Studies, B.S. (p. 339)
- Afro-American Studies, Certificate (p. 343)

## PEOPLE

Professors Adell, Drewal, Greene, Plummer, Thornton, Werner

Associate Professor Clark-Pujara

Assistant Professors Almiron, Davis

## AFRO-AMERICAN STUDIES, B.A.

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models that reconstruct Afro-American life. It challenges students to critically examine facts and issues that are historically and contemporaneously relevant to the Afro-American experience.

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## HOW TO GET IN

Students should inform the Department of Afro-American Studies Office of their intention to major and be assigned an advisor within the department.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

The major in Afro-American studies requires a **minimum of 30 credits** and one area of concentration, plus electives as follows:<sup>1</sup>



<sup>1</sup> Electives may be taken from any concentration area. A maximum 9 credits in Directed Study (AFROAMER 199, AFROAMER 699) may apply.

**AFRO-AMERICAN CULTURE: CHOOSE AN EMPHASIS**

Literature		
Code	Title	Credits
Two courses from:		6
AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
One course from:		3
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
AFROAMER 456	Soul Music and the African American Freedom Movement	
Three courses from:		9
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
AFROAMER 525	Major Authors	
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	
Total Credits		18

The Arts		
Code	Title	Credits
Two courses from:		6
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	

AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
One course from:		3
AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
Three courses from:		9
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
AFROAMER 456	Soul Music and the African American Freedom Movement	
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	
Total Credits		18

**AFRO-AMERICAN HISTORY**

Code	Title	Credits
One course from:		3-4
AFROAMER 231	Introduction to Afro-American History	
AFROAMER 272	Race and American Politics from the New Deal to the New Right	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
Two courses from:		6
AFROAMER 302	Undergraduate Studies in Afro-American History	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER 456	Soul Music and the African American Freedom Movement	
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	
Three courses from:		9

AFROAMER/ HISTORY 321	Afro-American History Since 1900	
AFROAMER/ HISTORY 322	Afro-American History to 1900	
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER 631	Colloquium in Afro-American History	
AFROAMER 671	Selected Topics in Afro-American History	
Total Credits		18-19

## AFRO-AMERICAN SOCIETY: CHOOSE AN EMPHASIS

### Black Women's Studies

Code	Title	Credits
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	3
Two courses from:		6
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 302	Undergraduate Studies in Afro- American History	
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
Three courses from:		9
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	
Total Credits		18

### Intergroup Relations

Code	Title	Credits
AFROAMER 151	Introduction to Contemporary Afro- American Society	3
Two courses from:		6
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	
Three courses from:		9

AFROAMER/ ANTHRO/ C&E SOC/GEORG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
AFROAMER/ POLI SCI 519	African American Political Theory	
AFROAMER/ HDFS/ SOC WORK 521	African American Families	
AFROAMER 673	Selected Topics in Afro-American Society	
Total Credits		18

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

2.000 GPA in all AFROAMER and major courses

2.000 GPA on at least 15 credits of upper-level work in the major, in residence<sup>2</sup>

15 credits in AFROAMER, taken on the UW–Madison campus

<sup>2</sup> Upper-level in the major includes AFROAMER courses numbered 300 and above.

## DISTINCTION

### Distinction in the Major

Afro-American studies majors not enrolled for Honors in the Major may receive the "Distinction in the Major" notation on the transcript by earning a 3.750 grade point average in major courses and successfully completing the AFROAMER 691–AFROAMER 692 Senior Thesis project.

### Thesis of Distinction

The award Thesis of Distinction is granted for an exceptionally good or original thesis, without consideration of the student's record in other work. A committee of at least two faculty members will evaluate the thesis and recommend to the dean the granting of this award when appropriate.

## HONORS IN THE MAJOR

Students may declare Honors in the Afro-American Studies Major in consultation with the Afro-American Studies undergraduate advisor(s).

## HONORS IN THE AFRO-AMERICAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Afro-American Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 University GPA
- 3.500 GPA in all AFROAMER courses, and all courses accepted in the major
- Complete at least one course with a cross-cultural or comparative focus:

Code	Title	Credits
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3

AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3

- Complete at least 15 credits in AFROAMER at the 500 or 600 level, to include a two-semester Senior Honors Thesis in AFROAMER 681 and AFROAMER 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. To familiarize students with the history, culture and social conditions of African Americans in the United States and, secondarily, in the African diaspora.
2. To prepare students to interact effectively in a multicultural world.
3. To prepare students to share the results of academic research in the area of race with their communities in Wisconsin, the U.S., and the world.
4. To prepare students for careers working in institutions that address the needs of multicultural communities.
5. To develop an understanding of the connection between different disciplinary approaches to the study of race.

## ADVISING AND CAREERS

### ADVISING

The Department of Afro-American Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

#### Professor Sandra Adell, Undergraduate and Certificate advisor in the major

saadell@wisc.edu  
608-262-0425  
4115 Helen C. White Hall

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREERS

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

#### Afro-American Studies Main Office:

Department of Afro-American Studies  
4141 Helen C. White Hall  
600 North Park Street, Madison, WI 53706  
Phone: 608-263-1642; Fax: 608-263-7198

## PEOPLE

Professors Adell, Drewal, Greene, Plummer, Thornton, Werner

Associate Professor Clark-Pujara

Assistant Professors Almiron, Davis

## AFRO-AMERICAN STUDIES, B.S.

The Department of Afro-American Studies at the University of Wisconsin–Madison offers students an opportunity to study those aspects of black history, culture, and society in ideal interdisciplinary models that reconstruct Afro-American life. It challenges students to critically examine facts and issues that are historically and contemporaneously relevant to the Afro-American experience.

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## HOW TO GET IN

Students should inform the Department of Afro-American Studies Office of their intention to major and be assigned an advisor within the department.

## REQUIREMENTS

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#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

The major in Afro-American studies requires a **minimum of 30 credits** and one area of concentration, plus electives as follows:<sup>1</sup>

<sup>1</sup> Electives may be taken from any concentration area. A maximum 9 credits in Directed Study (AFROAMER 199, AFROAMER 699) may apply.

**AFRO-AMERICAN CULTURE: CHOOSE AN EMPHASIS**

<b>Literature</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Two courses from:		6
AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
One course from:		3
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
AFROAMER 456	Soul Music and the African American Freedom Movement	
Three courses from:		9
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
AFROAMER 525	Major Authors	
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	
Total Credits		18

<b>The Arts</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Two courses from:		6
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
One course from:		3

AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
Three courses from:		9
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
AFROAMER 456	Soul Music and the African American Freedom Movement	
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	
Total Credits		18

**AFRO-AMERICAN HISTORY**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
One course from:		3-4
AFROAMER 231	Introduction to Afro-American History	
AFROAMER 272	Race and American Politics from the New Deal to the New Right	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
Two courses from:		6
AFROAMER 302	Undergraduate Studies in Afro- American History	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER 456	Soul Music and the African American Freedom Movement	
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	
Three courses from:		9
AFROAMER/ HISTORY 321	Afro-American History Since 1900	
AFROAMER/ HISTORY 322	Afro-American History to 1900	
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	

AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER 631	Colloquium in Afro-American History	
AFROAMER 671	Selected Topics in Afro-American History	
Total Credits		18-19

## AFRO-AMERICAN SOCIETY: CHOOSE AN EMPHASIS

### Black Women's Studies

Code	Title	Credits
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	3
Two courses from:		6
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 302	Undergraduate Studies in Afro- American History	
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
Three courses from:		9
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	
Total Credits		18

### Intergroup Relations

Code	Title	Credits
AFROAMER 151	Introduction to Contemporary Afro- American Society	3
Two courses from:		6
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	
Three courses from:		9
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	

AFROAMER/ POLI SCI 519	African American Political Theory	
AFROAMER/ HDFS/ SOC WORK 521	African American Families	
AFROAMER 673	Selected Topics in Afro-American Society	
Total Credits		18

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

2.000 GPA in all AFROAMER and major courses

2.000 GPA on at least 15 credits of upper-level work in the major, in residence<sup>2</sup>

15 credits in AFROAMER, taken on the UW–Madison campus

<sup>2</sup> Upper-level in the major includes AFROAMER courses numbered 300 and above.

## DISTINCTION

### Distinction in the Major

Afro-American studies majors not enrolled for Honors in the Major may receive the "Distinction in the Major" notation on the transcript by earning a 3.750 grade point average in major courses and successfully completing the AFROAMER 691–AFROAMER 692 Senior Thesis project.

### Thesis of Distinction

The award Thesis of Distinction is granted for an exceptionally good or original thesis, without consideration of the student's record in other work. A committee of at least two faculty members will evaluate the thesis and recommend to the dean the granting of this award when appropriate.

## HONORS IN THE MAJOR

Students may declare Honors in the Afro-American Studies Major in consultation with the Afro-American Studies undergraduate advisor(s).

## HONORS IN THE AFRO-AMERICAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Afro-American Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 University GPA
- 3.500 GPA in all AFROAMER courses, and all courses accepted in the major
- Complete at least one course with a cross-cultural or comparative focus:

Code	Title	Credits
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4

AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3

- Complete at least 15 credits in AFROAMER at the 500 or 600 level, to include a two-semester Senior Honors Thesis in AFROAMER 681 and AFROAMER 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. To familiarize students with the history, culture and social conditions of African Americans in the United States and, secondarily, in the African diaspora.
2. To prepare students to interact effectively in a multicultural world.
3. To prepare students to share the results of academic research in the area of race with their communities in Wisconsin, the U.S., and the world.
4. To prepare students for careers working in institutions that address the needs of multicultural communities.
5. To develop an understanding of the connection between different disciplinary approaches to the study of race.

## ADVISING AND CAREERS

### ADVISING

The Department of Afro-American Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

#### Professor Sandra Adell, Undergraduate and Certificate advisor in the major

saadell@wisc.edu  
608-262-0425  
4115 Helen C. White Hall

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREERS

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

#### Afro-American Studies Main Office:

Department of Afro-American Studies  
4141 Helen C. White Hall  
600 North Park Street, Madison, WI 53706  
Phone: 608-263-1642; Fax: 608-263-7198

## PEOPLE

Professors Adell, Drewal, Greene, Plummer, Thornton, Werner

Associate Professor Clark-Pujara

Assistant Professors Almiron, Davis

## AFRO-AMERICAN STUDIES, CERTIFICATE

The cohesiveness of the certificate program will be selected from concentration areas and other core courses in the curriculum of the department. For example, students may select courses in the areas of history, literature, black women's studies, music and cultural history, art history and visual culture, among others to meet their specific interests. All students, however, must take one course in Afro-American History

for 3 credits. No more than two of the other courses may be taken at the 100 or 200 level. One course must be a 500–600-level course or seminar. Collectively, the 15 selected credits will come from models and core courses that majors and graduate students take to fulfill requirements.

## HOW TO GET IN

Students should inform the Department of Afro-American Studies of their intention to pursue a certificate and be assigned an advisor within the department.

To pursue a certificate in Afro-American studies, students must be enrolled in an undergraduate degree program in any college or school at the University of Wisconsin–Madison, or as a Special student. Only Special students who began the certificate program as undergraduates are allowed to complete the program. Rules regarding transfer credits, up to 50 percent, which apply to undergraduates, also apply to Special students. Finally, all certificate students must declare their interest in the program and plan with the advisor a cohesive program consisting of 15 credits and earn a GPA of 2.50.

## REQUIREMENTS

The cohesiveness of the certificate program will be selected from concentration areas and other core courses in the curriculum of the Department. For example, students may select courses in the areas of history, literature, black women's studies, music and cultural history, art history and visual culture, among others to meet their specific interests. **All students, however, must take one course in Afro-American history for 3 credits.** No more than two of the other courses may be taken at the 100 or 200 level. One course must be a 500–600-level course or seminar. Collectively, the 15 selected credits will come from models and core courses that majors and graduate students take to fulfill requirements.

All certificate students must notify the Afro-American Studies advisor while they are completing their final course in order to get approval of completion and be awarded the certificate. The certificate is not awarded automatically based on DARS. If there are questions about a DARS report, please contact the certificate advisor.

## CERTIFICATE PROGRAM REQUIREMENTS

Required coursework for a certificate consists of 15 credits. It must demonstrate cohesiveness and range from elementary to advanced levels.

- Approved certificate courses must be graded. Credit/no credit and pass/–fail do not qualify.
- GPA of 2.5 in certificate courses. This certificate is only for undergraduate and special students who began the certificate program as undergraduates.
- At least 50 percent of credits applied toward the certificate must be taken in residence at UW-Madison. The study abroad program is considered resident credit; however, the study abroad must qualify as Afro-American studies credit.
- A student may not be awarded a major and certificate in the same subject area.
- Substitutions for courses in a certificate program are not permitted, unless the courses are in the Afro-American Studies curriculum. The certificate program advisor can recommend an exception to the

student's dean. For example, an equivalent substitute transfer course or a directed study constitutes an individual exception.

- Only one course of independent study is permitted; no more than 3 credits.

## ADVISING AND CAREERS

### Professor Sandra Adell, Certificate Advisor

saadell@wisc.edu  
608-262-0425  
4115 Helen C. White Hall

DARS is the document of record for the Afro-American studies certificate. Students should contact the certificate advisor to make sure they are on track to completing the program and to get confirmation of completion of the certificate.

### Main Office:

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4141 Helen C. White Hall  
600 North Park Street, Madison, WI 53706  
Phone: 608-263-1642  
Fax: 608-263-7198

## PEOPLE

Professors Adell, Drewal, Greene, Plummer, Thornton, Werner

Associate Professor Clark-Pujara

Assistant Professors Almiron, Davis

## AMERICAN INDIAN STUDIES PROGRAM

The American Indian Studies Program seeks to provide and maintain the highest levels of education, scholarship, leadership, and support to all students, staff, and faculty at the university. As an integral part of the university, the program maintains a special focus on assisting and supporting American Indians in their educational endeavors. In addition to the commitment to the university community, the program provides consultation and services to numerous local, state, and national organizations.

It is the mission of the American Indian Studies Program to provide leadership to other university departments and programs in the pursuit of American Indian course development and scholarship. In addition, the program serves as a resource center and support for individuals who are interested in American Indian culture, history, research, and contemporary life.

## DEGREES/MAJORS/CERTIFICATES

- American Indian Studies, Certificate (p. 345)

## PEOPLE

**Director:** Roberta Hill (<https://english.wisc.edu/faculty-hill.htm>)



**Associate Director:** Denise Wiyaka (<http://amindian.wisc.edu/faculty-staff.htm>)

## FACULTY

- Larry Nesper (<http://www.anthropology.wisc.edu/staff/nesper-larry>), Anthropology
- Shannon Sparks (<http://sohe.wisc.edu/staff/shannon-sparks-phd>), Civil Liberties and Community Studies
- Rand Valentine (<http://vanhise.lss.wisc.edu/ling/?q=node/33>), Linguistics

## AFFILIATED FACULTY

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- Bret Benally Thompson (<http://www.uwhealth.org/findadoctor/profile/bret-r-benally-thompson-md/9039>), Family Medicine
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah>), Anthropology
- Ada Deer (<http://socwork.wisc.edu/ada-deer>), Social Work, Emerita
- Eve Emshwiller (<http://www.botany.wisc.edu/emshwiller.htm>), Botany
- John Hall ([https://history.wisc.edu/faculty\\_jh.htm](https://history.wisc.edu/faculty_jh.htm)), History
- John Hitchcock (<https://art.wisc.edu/people/faculty>), Art
- Leah Horowitz (<https://sohe.wisc.edu/staff/leah-horowitz>), Nelson Institute
- Tom Jones (<https://art.wisc.edu/people/faculty>), Art
- Stephen Kantrowitz ([https://history.wisc.edu/faculty\\_sk.htm](https://history.wisc.edu/faculty_sk.htm)), History
- Patty Loew (<http://lsc.wisc.edu/people/faculty/patty-loew>), Life Sciences Communication
- Truman Lowe, Art, Emeritus
- Monica Macaulay (<http://vanhise.lss.wisc.edu/ling/?q=node/30>), Linguistics
- Shaun Marcott (<http://geoscience.wisc.edu/geoscience/people/faculty/shaun-marcott>), Geoscience
- Richard Monette (<http://www.law.wisc.edu/profiles/rmonette@wisc.edu>), Law School
- Shiela Reaves (<http://lsc.wisc.edu/faculty/shiela-reaves>), Life Sciences Communication
- Doug Reinemann ([https://bse.wisc.edu/Douglas\\_Reinemann.htm](https://bse.wisc.edu/Douglas_Reinemann.htm)), Biological Systems Engineering
- Paul Robbins (<https://nelson.wisc.edu/director.php>), Nelson Institute
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel>), Anthropology
- Ahna Skop (<https://genetics.wisc.edu/staff/skop-ahna>), Genetics
- Lucas Zoet, (<http://geoscience.wisc.edu/geoscience/people/faculty/lucas-zoet>) Geoscience

## AFFILIATED STAFF

- Aaron Bird Bear (<http://www.education.wisc.edu/soe/about/resource-service-units/student-diversity-programs/american-indian-curriculum-services/why-act31/exemplars/viewpoints-aaron-bird-bear>), Education
- Rebecca Comfort (<https://www.education.wisc.edu/soe/about/resource-service-units/student-diversity-programs/people>), Education
- Jessie Conaway, (<https://nelson.wisc.edu/contact/car-staff.php>) Nelson Institute

# AMERICAN INDIAN STUDIES, CERTIFICATE

## CERTIFICATE IN AMERICAN INDIAN STUDIES

A certificate in American Indian studies is a way of giving recognition to students who have made a significant effort to learn about American Indian culture and the place of American Indians in American society. Students receiving a certificate will have the achievement officially recorded via transcript notation.

## WHAT CAN I DO WITH A CERTIFICATE IN AMERICAN INDIAN STUDIES?

Students of American Indian studies go on to successful careers in administration, advising, academics, advocacy, the arts, business, community outreach, consulting, education, government, health or health education, journalism, library science, literacy programming, lobbying, management, politics, publishing, school counseling, social work, research, and many more.

## HOW TO GET IN

Students are required to declare the American Indian studies (AIS) certificate. To begin the certificate declaration process, students must fill out the Certificate Program Application form and bring it to room 316 Ingraham Hall. Students should contact the AIS certificate advisor to obtain the form and to obtain more details about the program. The certificate is open to Special students and undergraduate students regardless of the college of enrollment.

To learn more about the AIS certificate, contact Denise Wiyaka at [denise.wiyaka@wisc.edu](mailto:denise.wiyaka@wisc.edu) or request information by sending an email to [ais@lets.wisc.edu](mailto:ais@lets.wisc.edu). Students can also visit the AIS office at 316 Ingraham Hall.

## REQUIREMENTS

Certificate advisor: Denise Wiyaka ([denise.wiyaka@wisc.edu](mailto:denise.wiyaka@wisc.edu))

To receive a certificate in American Indian studies, a student must contact the American Indian studies advisor to fill out the necessary forms. Students are required to complete a total of 15 credits.

Code	Title	Credits
<i>Introduction to American Indian Studies:</i>		
AMER IND 100	Introduction to American Indian Studies	
<i>FOUR courses from AT LEAST TWO of the following disciplines:</i>		
<b>History</b>		
AMER IND/HISTORY 490	American Indian History	
<b>Literature and Media</b>		
AMER IND/ENGL 275	American Indian Oral Literatures	
AMER IND 325	American Indians in Film	
AMER IND/LSC 444	Native American Environmental Issues and the Media	

**Anthropology**

AMER IND/ ANTHRO 314	Indians of North America
AMER IND 320	Native Peoples of the Southwest
AMER IND/ ANTHRO 353	Indians of the Western Great Lakes
AMER IND/ ANTHRO 354	Archaeology of Wisconsin

**Language**

AMER IND 301	First Semester Ojibwe
AMER IND 302	Second Semester Ojibwe
AMER IND/ LINGUIS 371	Survey of North American Indian Languages

**American Indian Social and Cultural Issues**

AMER IND 250	Indians of Wisconsin
AMER IND/ ANTHRO/ FOLKLORE/ GEN&WS 437	American Indian Women
AMER IND 450	Issues in American Indian Studies
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany
AMER IND/ HDFS 522	American Indian Families
AMER IND/ C&E SOC/ SOC 578	Poverty and Place

*Additional credits to meet the minimum number of credits and courses required for the Certificate*

**RESIDENCE AND QUALITY OF WORK**

2.000 GPA must be earned on all coursework eligible to meet the certificate requirements.

6 credits may be taken as pass/fail. All other credits must be taken for a letter grade.

8 credits of the certificate coursework must be completed in residence.

**ADVISING AND CAREERS**

Students are required to declare the American Indian studies (AIS) certificate. For academic advising regarding the certificate, students should contact the AIS certificate advisor to obtain more details about the certificate program and general academic advising. Contact Denise Wiyaka at [denise.wiyaka@wisc.edu](mailto:denise.wiyaka@wisc.edu) or request information by sending an email to [ais@letsoci.wisc.edu](mailto:ais@letsoci.wisc.edu). Students can also visit the AIS office at 316 Ingraham Hall.

**PEOPLE**

**Director:** Roberta Hill (<https://english.wisc.edu/faculty-hill.htm>)

**Associate Director:** Denise Wiyaka (<http://amindian.wisc.edu/faculty-staff.htm>)

**FACULTY**

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- Rand Valentine (<http://vanhise.lss.wisc.edu/ling/?q=node/33>), Linguistics

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- Shiela Reaves (<http://lsc.wisc.edu/faculty/shiela-reaves>), Life Sciences Communication
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- Paul Robbins (<https://nelson.wisc.edu/director.php>), Nelson Institute
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel>), Anthropology
- Ahna Skop (<https://genetics.wisc.edu/staff/skop-ahna>), Genetics
- Lucas Zoet, (<http://geoscience.wisc.edu/geoscience/people/faculty/lucas-zoet>) Geoscience

**AFFILIATED STAFF**

- Aaron Bird Bear (<http://www.education.wisc.edu/soe/about/resource-service-units/student-diversity-programs/american-indian-curriculum-services/why-act31/exemplars/viewpoints-aaron-bird-bear>), Education
- Rebecca Comfort (<https://www.education.wisc.edu/soe/about/resource-service-units/student-diversity-programs/people>), Education
- Jessie Conaway, (<https://nelson.wisc.edu/contact/car-staff.php>) Nelson Institute

# ANTHROPOLOGY

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a history of the human species, anthropology studies all human biological and behavioral variation from the earliest fossil records to the present; it includes the study of nonhuman primates as well. As a social science, anthropology aims at uncovering the patterns of past and present societies. As one of the humanities, anthropology seeks to understand the ways cultural meaning and political power have shaped human experience.

At the University of Wisconsin–Madison, anthropology consists of three subfields: archaeology—the investigation and analysis of the remains from past cultures, uncovered through excavation; biological anthropology—the study of human evolution and the roots of the biological and genetic diversity found among contemporary peoples; and sociocultural anthropology—the comparative study of society, politics, economy, and culture, whether in historical times or in our contemporary moment. UW–Madison also offers some classes in anthropological linguistics—the analysis of language and its place in social life. Comparative and empirical work—and fieldwork in particular—are the hallmarks of anthropology on this campus.

Thus, anthropology at UW–Madison is characterized by a comparative point of view, a focus on humans and societies in all their variation and similarity, and an effort to reveal and understand the complex but organized diversity that has shaped the human condition, past and present.

## DEGREES/MAJORS/CERTIFICATES

- Anthropology, B.A. (p. 348)
- Anthropology, B.S. (p. 353)
- Archaeology, Certificate (p. 357)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine>)  
Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah>)  
Archaeology, Mesoamerica, Teotihuacan

- Falina Enriquez (<http://www.anthropology.wisc.edu/staff/enriquez-falina>)  
Cultural anthropology, ethnomusicology, Brazil
- John Hawks (<http://www.anthropology.wisc.edu/staff/hawks-john>)  
Biological anthropology, paleoanthropology, anthropological genomics, South Africa
- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark>)  
Archaeology, South Asia, Harappa, craft production
- Nam C. Kim (<http://www.anthropology.wisc.edu/staff/kim-nam-c>)  
Archaeology, Southeast Asia, Vietnam, complex societies, warfare
- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria>)  
Cultural anthropology, medical anthropology, Oceania
- Hayder al-Mohammad (<http://www.anthropology.wisc.edu/staff/al-mohammad-hayder>)  
Cultural anthropology, anthropology of Islam, Iraq
- Richard McFarland (<http://www.anthropology.wisc.edu/staff/mcfarland-richard>)  
Biological anthropology, primatology, behavioral ecology
- Larry Nesper (<http://www.anthropology.wisc.edu/staff/nesper-larry>)  
Cultural anthropology, legal anthropology, North America, Wisconsin
- Emiko Ohnuki-Tierney (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko>)  
Cultural anthropology, East Asia, Japan
- Travis Pickering (<http://www.anthropology.wisc.edu/staff/pickering-travis>)  
Biological anthropology, taphonomy, South Africa
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel>)  
Archaeology, historical ecology, Eastern North America, complex societies
- Amy Stambach (<http://www.anthropology.wisc.edu/staff/stambach-amy>)  
Cultural anthropology, East Africa
- Karen Strier (<http://www.anthropology.wisc.edu/staff/strier-karen>)  
Biological anthropology, primatology, behavioral ecology, Brazil
- Claire Wendland (<http://www.anthropology.wisc.edu/staff/wendland-claire>)  
Cultural anthropology, medical anthropology, Africa, Malawi
- Zhou Yongming (<http://www.anthropology.wisc.edu/staff/zhou-yongming>)

Cultural anthropology, East Asia, China, development

## ACADEMIC STAFF

- Danielle M. Benden (<http://www.anthropology.wisc.edu/staff/benden-danielle>), Senior Curator

Archaeology, methods of curation, North America

## AFFILIATE FACULTY

- William Aylward (<http://canes.wisc.edu/aylward-william.htm>)
- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327>)
- Nicholas Cahill (<http://arthistory.wisc.edu/nicholas-cahill-biography.htm>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml>)
- Elizabeth Mertz (<http://law.wisc.edu/profiles/eemertz@wisc.edu>)
- Ellen Rafferty

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Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

- James Stoltman

Archaeology, North America, Wisconsin

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## HOW TO GET IN

Students wishing to declare an anthropology major should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 490	Undergraduate Seminar <sup>1</sup>	3
Select two of the following:		6
ANTHRO 212	Principles of Archaeology <sup>2</sup>	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
Additional credits in ANTHRO to reach 30 credit minimum for the major. <sup>1</sup>		15
Total Credits		30

<sup>1</sup>By arrangement with a supervising professor, certain students may substitute a thesis for 4 of the required credits, to be written in biological anthropology, archaeology, or sociocultural anthropology.

#### Residence and Quality of Work

2.000 GPA in all ANTHRO and major courses

2.000 GPA in 15 upper-level major credits in residence<sup>2</sup>

15 credits in ANTHRO, taken on campus

<sup>2</sup>Courses 300 level and higher are counted as upper level, with the exception of Quechua and Yucatec Maya language courses (ANTHRO/LACIS 361 Elementary Quechua, ANTHRO/LACIS 362 Elementary Quechua, ANTHRO/LACIS 363 Intermediate Quechua, ANTHRO/LACIS 364 Advanced Quechua, ANTHRO/LACIS 376 First Semester Yucatec Maya, ANTHRO/LACIS 377 Second Semester Yucatec Maya).

Students planning to go on to graduate-level study should talk to their advisor about foreign languages, field experience, or other training needed for advanced anthropological research. Additional courses in related fields should be discussed with an advisor in the department.

### DISTINCTION IN THE MAJOR

Undergraduate students who are not enrolled in the honors program are eligible to be recommended by their advisor to the department to receive Distinction in the Major if they have maintained a 3.500 GPA in their major and have written an exceptional senior thesis or an exceptional paper in an undergraduate seminar or independent study.

### HONORS IN THE MAJOR

Students may declare Honors in the Major in Anthropology in consultation with the Anthropology advisor(s).

## HONORS IN THE ANTHROPOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Anthropology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all ANTHRO courses, and all courses accepted in the major
- Complete the following coursework:
  - ANTHRO 490 Undergraduate Seminar or one seminar at the 600 level; choose from:

Code	Title	Credits
ANTHRO 601	Proseminar in Biological Anthropology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 604	Seminar: Topics in Physical Anthropology of the Living	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
ANTHRO 690	Problems in Anthropology	3-4

- A two-semester Senior Honors Thesis in ANTHRO 681 Senior Honors Thesis and ANTHRO 682 Senior Honors Thesis, for a total of 6 credits.
- 9 or more credits, taken for Honors, with 3 credits in each section of Anthropology (biological, archaeological, and cultural) and a B or better earned in each course

## BIOLOGICAL

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 302	Hominoid Evolution	3
ANTHRO 303	Human Skeletal Anatomy	4
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 454	Study Abroad: Topics in Biological Anthropology	1-6
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 601	Proseminar in Biological Anthropology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 604	Seminar: Topics in Physical Anthropology of the Living	3
ANTHRO 605	Seminar-Current Problems in Paleoanthropology	3
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
ANTHRO 641	The Evolution of Human Diet	3-4
ANTHRO 658	Ecological Models of Behavior	3

## CULTURAL

Code	Title	Credits
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO/ MED HIST 231	Introduction to Social Medicine	3
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/ LINGUIS 301	Introduction to Linguistics: Descriptive and Theoretical	3
ANTHRO 307	Urban Anthropology	3
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 327	Peoples of the Andes Today	3
ANTHRO 330	Topics in Ethnology	3-4
ANTHRO/ RELIG ST 343	Anthropology of Religion	3-4
ANTHRO/ FOLKLORE 344	Anthropological Approaches to Folklore	3
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3
ANTHRO 348	Economic Anthropology	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/ AMER IND 353	Indians of the Western Great Lakes	3
ANTHRO/LACIS 361	Elementary Quechua	4
ANTHRO/LACIS 362	Elementary Quechua	4
ANTHRO/LACIS 363	Intermediate Quechua	4
ANTHRO/LACIS 364	Advanced Quechua	4
ANTHRO 365	Medical Anthropology	3
ANTHRO 424	Historical Anthropology	3
ANTHRO/LCA/ LINGUIS 430	Language and Culture	3-4
ANTHRO/AMER IND/ FOLKLORE 431	American Indian Folklore	3
ANTHRO/ GEN&WS 443	Anthropology by Women	3
ANTHRO 448	Anthropology of Law	3
ANTHRO 456	Symbolic Anthropology	3-4
ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	3
ANTHRO/LCA 462	Anthropology of South Asia	3
ANTHRO/ FOLKLORE 520	Ethnic Representations in Wisconsin	4
ANTHRO/ FOLKLORE/MUSIC/ THEATRE 539	The Folklore of Festivals and Celebrations	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ ED POL 570	Anthropology and Education	3

ANTHRO 632	Linguistic Anthropology	3
ANTHRO/ FOLKLORE 639	Field School: Ethnography of Wisconsin Festivals	6-8
ANTHRO/ RELIG ST 666	The Anthropology of Shamanism and Occult Experience	3

## ARCHAEOLOGICAL

Code	Title	Credits
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 212	Principles of Archaeology	3
ANTHRO 309	Prehistoric Europe	3
ANTHRO 310	Topics in Archaeology	3
ANTHRO 311	Archaeological Chemistry	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 322	The Origins of Civilization	3
ANTHRO 333	Prehistory of Africa	3
ANTHRO 352	Ancient Technology and Invention	3
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	3
ANTHRO/ AMER IND 355	Archaeology of Eastern North America	3
ANTHRO 370	Field Course in Archaeology	3-6
ANTHRO 391	Bones for the Archaeologist	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Students will acquire specialized training in anthropological research.
2. Students will obtain comparative global knowledge of human diversity, material culture, culture history, and the evolution of people's relationships with the physical, cultural, and natural world.
3. Students will gain an awareness of ethnographic, archaeological and bio-anthropological ethics practice and research.

4. Students will be able to distinguish between empirical and speculative narratives and claims about human diversity past and present.

## ADVISING AND CAREERS

### ADVISING

Students interested in anthropology and declaring the major should contact the department directly by calling the general number (608-262-2866) or stopping by 5240 William H. Sewell Social Science Building for individual advising.

### CAREER EXPLORATION

Anthropology encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a career advising appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we are transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine>)  
Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah>)  
Archaeology, Mesoamerica, Teotihuacan

- **Falina Enriquez** (<http://www.anthropology.wisc.edu/staff/enriquez-falina>)

Cultural anthropology, ethnomusicology, Brazil

- **John Hawks** (<http://www.anthropology.wisc.edu/staff/hawks-john>)

Biological anthropology, paleoanthropology, anthropological genomics, South Africa

- **J. Mark Kenoyer** (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark>)

Archaeology, South Asia, Harappa, craft production

- **Nam C. Kim** (<http://www.anthropology.wisc.edu/staff/kim-nam-c>)

Archaeology, Southeast Asia, Vietnam, complex societies, warfare

- **Maria Lepowsky** (<http://www.anthropology.wisc.edu/staff/lepowsky-maria>)

Cultural anthropology, medical anthropology, Oceania

- **Hayder al-Mohammad** (<http://www.anthropology.wisc.edu/staff/al-mohammad-hayder>)

Cultural anthropology, anthropology of Islam, Iraq

- **Richard McFarland** (<http://www.anthropology.wisc.edu/staff/mcfarland-richard>)

Biological anthropology, primatology, behavioral ecology

- **Larry Nesper** (<http://www.anthropology.wisc.edu/staff/nesper-larry>)

Cultural anthropology, legal anthropology, North America, Wisconsin

- **Emiko Ohnuki-Tierney** (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko>)

Cultural anthropology, East Asia, Japan

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- **Claire Wendland** (<http://www.anthropology.wisc.edu/staff/wendland-claire>)

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Cultural anthropology, East Asia, China, development

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- **Danielle M. Benden** (<http://www.anthropology.wisc.edu/staff/benden-danielle>), Senior Curator

Archaeology, methods of curation, North America

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Cultural anthropology
- **Herbert Lewis**  
Cultural anthropology, history of anthropology
- **T. Douglas Price**  
Archaeology, Archaeological chemistry, Europe
- **Frank Salomon**  
Cultural anthropology, South America



• James Stoltman

Archaeology, North America, Wisconsin

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All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 490	Undergraduate Seminar <sup>1</sup>	3
Select two of the following:		6
ANTHRO 212	Principles of Archaeology <sup>2</sup>	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
Additional credits in ANTHRO to reach 30 credit minimum for the major. <sup>1</sup>		15
Total Credits		30

<sup>1</sup>By arrangement with a supervising professor, certain students may substitute a thesis for 4 of the required credits, to be written in biological anthropology, archaeology, or sociocultural anthropology.

### Residence and Quality of Work

2.000 GPA in all ANTHRO and major courses

2.000 GPA in 15 upper-level major credits in residence<sup>2</sup>

15 credits in ANTHRO, taken on campus

<sup>2</sup>Courses 300 level and higher are counted as upper level, with the exception of Quechua and Yucatec Maya language courses (ANTHRO/LACIS 361 Elementary Quechua, ANTHRO/LACIS 362 Elementary Quechua, ANTHRO/LACIS 363 Intermediate Quechua, ANTHRO/LACIS 364 Advanced Quechua, ANTHRO/LACIS 376 First Semester Yucatec Maya, ANTHRO/LACIS 377 Second Semester Yucatec Maya).

Students planning to go on to graduate-level study should talk to their advisor about foreign languages, field experience, or other training needed for advanced anthropological research. Additional courses in related fields should be discussed with an advisor in the department.

## DISTINCTION IN THE MAJOR

Undergraduate students who are not enrolled in the honors program are eligible to be recommended by their advisor to the department to receive Distinction in the Major if they have maintained a 3.500 GPA in their major and have written an exceptional senior thesis or an exceptional paper in an undergraduate seminar or independent study.

## HONORS IN THE MAJOR

Students may declare Honors in the Major in Anthropology in consultation with the Anthropology advisor(s).

## HONORS IN THE ANTHROPOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Anthropology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all ANTHRO courses, and all courses accepted in the major
- Complete the following coursework:
  - ANTHRO 490 Undergraduate Seminar or one seminar at the 600 level; choose from:

Code	Title	Credits
ANTHRO 601	Proseminar in Biological Anthropology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 604	Seminar: Topics in Physical Anthropology of the Living	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
ANTHRO 690	Problems in Anthropology	3-4

- A two-semester Senior Honors Thesis in ANTHRO 681 Senior Honors Thesis and ANTHRO 682 Senior Honors Thesis, for a total of 6 credits.
- 9 or more credits, taken for Honors, with 3 credits in each section of Anthropology (biological, archaeological, and cultural) and a B or better earned in each course

## BIOLOGICAL

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 302	Hominoid Evolution	3
ANTHRO 303	Human Skeletal Anatomy	4
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 454	Study Abroad: Topics in Biological Anthropology	1-6
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 601	Proseminar in Biological Anthropology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 604	Seminar: Topics in Physical Anthropology of the Living	3
ANTHRO 605	Seminar-Current Problems in Paleoanthropology	3
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
ANTHRO 641	The Evolution of Human Diet	3-4
ANTHRO 658	Ecological Models of Behavior	3

**CULTURAL**

Code	Title	Credits
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO/ MED HIST 231	Introduction to Social Medicine	3
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/ LINGUIS 301	Introduction to Linguistics: Descriptive and Theoretical	3
ANTHRO 307	Urban Anthropology	3
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 327	Peoples of the Andes Today	3
ANTHRO 330	Topics in Ethnology	3-4
ANTHRO/ RELIG ST 343	Anthropology of Religion	3-4
ANTHRO/ FOLKLORE 344	Anthropological Approaches to Folklore	3
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3
ANTHRO 348	Economic Anthropology	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/ AMER IND 353	Indians of the Western Great Lakes	3
ANTHRO/LACIS 361	Elementary Quechua	4
ANTHRO/LACIS 362	Elementary Quechua	4
ANTHRO/LACIS 363	Intermediate Quechua	4
ANTHRO/LACIS 364	Advanced Quechua	4
ANTHRO 365	Medical Anthropology	3
ANTHRO 424	Historical Anthropology	3
ANTHRO/LCA/ LINGUIS 430	Language and Culture	3-4
ANTHRO/AMER IND/ FOLKLORE 431	American Indian Folklore	3
ANTHRO/ GEN&WS 443	Anthropology by Women	3
ANTHRO 448	Anthropology of Law	3
ANTHRO 456	Symbolic Anthropology	3-4
ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	3
ANTHRO/LCA 462	Anthropology of South Asia	3
ANTHRO/ FOLKLORE 520	Ethnic Representations in Wisconsin	4
ANTHRO/ FOLKLORE/MUSIC/ THEATRE 539	The Folklore of Festivals and Celebrations	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ ED POL 570	Anthropology and Education	3

ANTHRO 632	Linguistic Anthropology	3
ANTHRO/ FOLKLORE 639	Field School: Ethnography of Wisconsin Festivals	6-8
ANTHRO/ RELIG ST 666	The Anthropology of Shamanism and Occult Experience	3

**ARCHAEOLOGICAL**

Code	Title	Credits
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 212	Principles of Archaeology	3
ANTHRO 309	Prehistoric Europe	3
ANTHRO 310	Topics in Archaeology	3
ANTHRO 311	Archaeological Chemistry	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 322	The Origins of Civilization	3
ANTHRO 333	Prehistory of Africa	3
ANTHRO 352	Ancient Technology and Invention	3
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	3
ANTHRO/ AMER IND 355	Archaeology of Eastern North America	3
ANTHRO 370	Field Course in Archaeology	3-6
ANTHRO 391	Bones for the Archaeologist	3

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Students will acquire specialized training in anthropological research.
2. Students will obtain comparative global knowledge of human diversity, material culture, culture history, and the evolution of people's relationships with the physical, cultural, and natural world.
3. Students will gain an awareness of ethnographic, archaeological and bioanthropological ethics practice and research.

4. Students will be able to distinguish between empirical and speculative narratives and claims about human diversity past and present.

## ADVISING AND CAREERS

### ADVISING

Students interested in anthropology and declaring the major should contact the department directly by calling the general number (608-262-2866) or stopping by 5240 William H. Sewell Social Science Building for individual advising.

### CAREER EXPLORATION

Anthropology encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a career advising appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we are transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine>)  
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- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry>)  
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- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark>)

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- Richard McFarland (<http://www.anthropology.wisc.edu/staff/mcfarland-richard>)

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- Larry Nesper (<http://www.anthropology.wisc.edu/staff/nesper-larry>)

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## ACADEMIC STAFF

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Archaeology, methods of curation, North America

## AFFILIATE FACULTY

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- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327>)
- Nicholas Cahill (<http://arthistory.wisc.edu/nicholas-cahill-biography.htm>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml>)
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Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

- James Stoltman

Archaeology, North America, Wisconsin

## ARCHAEOLOGY, CERTIFICATE

Ancient history is a puzzle made up of innumerable fragments—pieces of bone, pottery, stone, and metal; remnants of architecture and monuments; residues of food; and traces of other things. Archaeology is the field of study that provides the tools to discover these fragments and piece them together to reconstruct a picture of the ancient world and to illuminate the stories of past peoples. An accurate understanding of the past is critical for developing a better present and future.

The archaeology certificate is designed to help students obtain a global and interdisciplinary perspective on archaeology and human culture and to gain many of the skills needed to analyze archaeological materials and conduct archaeological field investigations. Through their participation in the archaeology certificate program, students acquire an understanding of how past societies in different regions of the world have successfully or, in many cases, unsuccessfully dealt with adaptation to their environment and interaction with other communities. Students also gain a better appreciation of the diversity of human culture and increased respect for the differences that have resulted from millennia of social, economic, political and ideological developments. Students are able to explore the origins of subsistence strategies, trade, technology, belief systems, and conflict that are still relevant to our modern world, as well as ever changing global economic and political situations.

The archaeology certificate provides an interdisciplinary linkage among courses in several departments and stimulates students to think about similar topics from different academic and theoretical perspectives. Through the curriculum, students get training specific to archaeology. In addition to providing students with a mechanism for developing an understanding of archaeology in its broadest sense, the certificate provides a strong intellectual foundation and skills for future careers and graduate study in archaeology and related fields. Students who successfully complete the certificate, along with a B.A. or B.S. degree from UW–Madison, improve their competitiveness in graduate school applications and, more importantly, have documentation that they are qualified for entry-level employment opportunities in archaeology.

For further information on the archaeology certificate, including a list of core faculty, please see the Department of Anthropology website (<http://www.anthropology.wisc.edu/for-undergraduates/the-certificate-in-archaeology>).

## HOW TO GET IN

Students wishing to declare an archaeology certificate should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building. The telephone number for the department is 608-262-2866.

## REQUIREMENTS

### 7 COURSES AND 21 CREDITS

Credits must be distributed in at least three SUBJECTs, and must meet these requirements:

**Introductory course**

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 105	Principles of Biological Anthropology	
ANTHRO 212	Principles of Archaeology	
Total Credits		3

**Area courses**

Code	Title	Credits
<b>Complete 6 credits from:</b>		<b>6</b>
ANTHRO 309	Prehistoric Europe	
ANTHRO 310	Topics in Archaeology	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
ANTHRO 333	Prehistory of Africa	
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	
ANTHRO/ AMER IND 355	Archaeology of Eastern North America	
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 390	Pre-Columbian Art	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 600	Special Topics in Art History <sup>1</sup>	
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology	
CLASSICS 320	The Greeks	
CLASSICS 322	The Romans	
CLASSICS 379	Eureka! Technology and Practice in the Ancient World	
CLASSICS 602	The Ancient Mediterranean City	
HEBR-BIB/ JEWISH 452	Biblical Archaeology	
HISTORY 303	A History of Greek Civilization	
HISTORY 307	A History of Rome	
HISTORY/ MEDIÉVAL 313	Introduction to Byzantine History and Civilization	
HISTORY 377	History of Africa, 1500 to 1870	

<sup>1</sup> Must be an archaeology topic.**Methods**

Code	Title	Credits
<b>Complete 6 credits from:</b>		<b>6</b>
ANTHRO 302	Hominoïd Evolution	
ANTHRO 303	Human Skeletal Anatomy	

ANTHRO 311	Archaeological Chemistry	
ANTHRO 352	Ancient Technology and Invention	
ANTHRO 391	Bones for the Archaeologist	
ANTHRO 696	Archaeological Methods of Curation	
BOTANY 240	Plants and Humans	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany	
CLASSICS 430	Topics in Classical Archaeology	
ENVIR ST/ ATM OCN/ GEOG 331	Climatic Environments of the Past	
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems	
ENVIR ST/ CIV ENGR/G L E/ GEOSCI 444	Practical Applications of GPS Surveying	
GEOG/ GEOSCI 320	Geomorphology	
GEOG 321	Climatology	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	
GEOG 360	Quantitative Methods in Geographical Analysis	
GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG/ GEOSCI 527	The Quaternary Period	
GEOG/ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
GEOSCI 202	Introduction to Geologic Structures	
GEOSCI 203	Earth Materials	
GEOSCI/ GEOG 320	Geomorphology	
GEOSCI/ GEOG 326	Landforms-Topics and Regions	
GEOSCI/ GEOG 420	Glacial and Pleistocene Geology	
GEOSCI 430	Sedimentology and Stratigraphy	
GEOSCI/ CIV ENGR/ ENVIR ST/ G L E 444	Practical Applications of GPS Surveying	
GEOSCI/G L E 594	Introduction to Applied Geophysics	

ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
Total Credits		6

**Field course**

Code	Title	Credits
ANTHRO 370	Field Course in Archaeology	3-6
Total Credits		3-6

**Capstone**

Code	Title	Credits
<b>Choose from:</b>		
ANTHRO 352	Ancient Technology and Invention <sup>2</sup>	
ANTHRO 490	Undergraduate Seminar <sup>3</sup>	
Total Credits		3-4

<sup>2</sup> ANTHRO 352 can count either for a methods course or for the capstone course, but not both.

<sup>3</sup> ANTHRO 490 is a Topics course. In order to meet the capstone requirement, it must be on an archaeology topic.

**RESIDENCE & QUALITY OF WORK <sup>4</sup>**

2.000 GPA on all certificate-approved courses 11 credits in the certificate, in residence

<sup>4</sup> Pass/fail courses do not apply to the certificate.

**ADVISING AND CAREERS**

Students wishing to receive advising for the archaeology certificate should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building. The telephone number for the department is 608-262-2866.

**PEOPLE****FACULTY**

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine>)

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- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria>)

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- Hayder al-Mohammad (<http://www.anthropology.wisc.edu/staff/al-mohammad-hayder>)

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- Richard McFarland (<http://www.anthropology.wisc.edu/staff/mcfarland-richard>)

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- Zhou Yongming (<http://www.anthropology.wisc.edu/staff/zhou-yongming>)

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Archaeology, methods of curation, North America

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- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327>)
- Nicholas Cahill (<http://arthistory.wisc.edu/nicholas-cahill-biography.htm>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml>)
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- Anatoly Khazanov (<http://www.anthropology.wisc.edu/staff/khazanov-anatoly>)  
Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America
- James Stoltman

Archaeology, North America, Wisconsin

## ART HISTORY

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis, problem-solving, writing and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions, in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged.

## DEGREES/MAJORS/CERTIFICATES

- Art History, B.A. (p. 360)
- Art History, B.S. (p. 369)
- Material Culture Studies, Certificate (p. 377)

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, Drewal, Marshall, Martin, Phillips (Chair)

Associate Professors McClure, Phillips-Court

Assistant Professors Brisman, Li, Pruitt

Adjunct Lecturers Fuller, Panczenko

Affiliate Professors Aylward, Clark, Kern, Nadler

Affiliate Associate Professor Abdu'Allah

Affiliate UW–Milwaukee Associate Professor Sen

Affiliate UW–Milwaukee Assistant Professors Benyamin, Moon

## ART HISTORY, B.A.

### OVERVIEW

The art history major provides a foundation for answering key questions about what it means to be human as well as valuable skills for today's workplaces. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis,



problem-solving, writing and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories.

## STUDY ABROAD

The department strongly encourages art history majors to participate in study abroad programs. Students gain firsthand experience of other cultures and languages and have the opportunity to study major artistic monuments. Credit for appropriate coursework can be applied toward the major after arrangements have been made with the study abroad program, or, in the case of non-UW study abroad programs, the Office of Admissions and Recruitment (<http://www.admissions.wisc.edu/equivalencies>). For more information, see the Study Abroad website (<http://www.studyabroad.wisc.edu>).

## HOW TO GET IN

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged. More detailed information can be found at Declaring the Art History Major (<http://arthistory.wisc.edu/declaring-the-art-history-major.htm>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>

L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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	30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS IN THE MAJOR

### FOREIGN LANGUAGE

Note: A unit is one year of high school work or one semester/term of college work.

1. Complete the fourth unit of a foreign language; *or*
2. Complete the third unit of a foreign language *and* the second unit of an additional foreign language

### LEVEL REQUIREMENTS

Nine (9) courses in ART HIST as follows:

#### 200-level ART HIST (two required)

Code	Title	Credits
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 203	Survey of Asian Art	
ART HIST/ AFROAMER 204	Introduction to Visual Cultures	
ART HIST 205	Global Arts	
ART HIST 208	Western Architecture: Renaissance to Modern	
ART HIST 227	The Ends of Modernism	
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	
ART HIST/ ANTHRO/DS 264/ HISTORY/ LAND ARC 264	Dimensions of Material Culture	

#### 300-level ART HIST (three required)

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	
ART HIST 310	Early Christian and Byzantine Art	

ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 320	Italian Renaissance Art
ART HIST 321	Italian Art: 1250-1400
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel
ART HIST 333	Netherlandish Painting of the 17th Century
ART HIST 334	Prints and Master Printmakers of the Western World
ART HIST 335	Study Abroad in Ancient/Medieval Art
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art
ART HIST 337	Study Abroad in 18th-20th Century Art
ART HIST 338	Study Abroad in African/Asian Art
ART HIST 341	Italian Baroque Art
ART HIST 346	British Art and Society from the Eighteenth Century to the Present
ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST 355	History of Photography
ART HIST 357	European Architecture: The Nineteenth Century
ART HIST 358	European Architecture: The Modern Movements
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present
ART HIST 365	The Concept of Contemporary Art
ART HIST 367	American Architecture: Colonial and Federal
ART HIST 368	American Architecture: The 19th Century
ART HIST 371	Chinese Painting
ART HIST 372	Arts of Japan

ART HIST/ RELIG ST 373	Great Cities of Islam
ART HIST 375	Later Japanese Painting and Woodblock Prints
ART HIST/ LCA 379	Cities of Asia
ART HIST 390	Pre-Columbian Art

**400-level ART HIST (two required)**

Code	Title	Credits
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST 411	Topics in Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 420	Topics in Italian Renaissance Art	
ART HIST 425	Race and Gender in Italian Early Modern Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed	
ART HIST 435	Study Abroad in Ancient/Medieval Art	
ART HIST 436	Study Abroad in Renaissance/ Baroque/Northern Art	
ART HIST 437	Study Abroad in 18th-20th Century Art	
ART HIST 438	Study Abroad in African/Asian Art	
ART HIST 440	Art and Power in the Arab World	
ART HIST 449	Topics in Architectural History	
ART HIST 454	Art in Germany, 1900-1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
ART HIST 463	Topics in American Material Culture	
ART HIST/DS 464/ HISTORY 464	Dimensions of Material Culture	
ART HIST 468	Frank Lloyd Wright	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	
ART HIST 479	Art and History in Africa	

**500-level ART HIST (one required)**

Code	Title	Credits
ART HIST 500	Proseminar: Special Topics in Art History	
ART HIST 505	Proseminar in Ancient Art	
ART HIST 506	Curatorial Studies Exhibition Practice	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 525	Proseminar in Italian Renaissance Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
ART HIST 563	Proseminar in Material Culture	
ART HIST 565	Proseminar in American Art	
ART HIST 567	Proseminar in American Architecture	
ART HIST 569	Interdisciplinary Studies in the Arts	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
ART HIST 579	Proseminar in African Art	

**Electives to meet minimum nine courses required**

Code	Title	Credits
ART HIST 100-699		

**CHRONOLOGICAL DISTRIBUTION**

Of the nine required ART HIST courses, at least one course from each area:

**Ancient to Medieval**

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 310	Early Christian and Byzantine Art	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 321	Italian Art: 1250-1400	
ART HIST 335	Study Abroad in Ancient/Medieval Art	
ART HIST 371	Chinese Painting <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 390	Pre-Columbian Art	

ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 413	Art and Architecture in the Age of the Caliphs
ART HIST/ MEDIEVAL 415	Topics in Medieval Art
ART HIST 435	Study Abroad in Ancient/Medieval Art
ART HIST 440	Art and Power in the Arab World <sup>1</sup>
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Early Modern (Circa 1400–Circa 1800)

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present <sup>1</sup>	
ART HIST 320	Italian Renaissance Art	
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel	
ART HIST 333	Netherlandish Painting of the 17th Century	
ART HIST 334	Prints and Master Printmakers of the Western World <sup>1</sup>	
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 341	Italian Baroque Art	
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations	
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>	
ART HIST 371	Chinese Painting <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST 375	Later Japanese Painting and Woodblock Prints	

ART HIST/ LCA 379	Cities of Asia <sup>1</sup>
ART HIST 420	Topics in Italian Renaissance Art
ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Modern (Circa 1800–Circa 1945)

Code	Title	Credits
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present <sup>1</sup>	
ART HIST 334	Prints and Master Printmakers of the Western World <sup>1</sup>	
ART HIST 337	Study Abroad in 18th-20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	European Architecture: The Nineteenth Century	
ART HIST 358	European Architecture: The Modern Movements	
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>	
ART HIST 367	American Architecture: Colonial and Federal	
ART HIST 368	American Architecture: The 19th Century	
ART HIST 371	Chinese Painting <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST 437	Study Abroad in 18th-20th Century Art	
ART HIST 454	Art in Germany, 1900-1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>	
ART HIST 463	Topics in American Material Culture	

ART HIST 468	Frank Lloyd Wright
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Contemporary (Post 1945)

Code	Title	Credits
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST 365	The Concept of Contemporary Art	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 469	Interdisciplinary Studies in the Arts	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

## GEOGRAPHIC DISTRIBUTION

Of the nine required ART HIST courses, at least one course from **three** of these **five** areas:

### Cross-Cultural/Diaspora

Code	Title	Credits
ART HIST/ AFROAMER 242	Introduction to Afro-American Art	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST/ AFROAMER 643	Selected Topics in African Diaspora Art History	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one

Geographical area. See Advising and Careers section for more information.

### Africa/Middle East

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 479	Art and History in Africa	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Asia

Code	Title	Credits
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 371	Chinese Painting	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 411	Topics in Asian Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Europe

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 310	Early Christian and Byzantine Art	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 320	Italian Renaissance Art	

ART HIST 321	Italian Art: 1250-1400
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel
ART HIST 333	Netherlandish Painting of the 17th Century
ART HIST 334	Prints and Master Printmakers of the Western World
ART HIST 341	Italian Baroque Art
ART HIST 346	British Art and Society from the Eighteenth Century to the Present
ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>
ART HIST 355	History of Photography <sup>1</sup>
ART HIST 357	European Architecture: The Nineteenth Century
ART HIST 358	European Architecture: The Modern Movements
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 407	Topics in Nineteenth Century Art
ART HIST 408	Topics in Twentieth-Century Art
ART HIST/ MEDIEVAL 415	Topics in Medieval Art
ART HIST 420	Topics in Italian Renaissance Art
ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 454	Art in Germany, 1900-1945

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### The Americas

Code	Title	Credits
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	

ART HIST 365	The Concept of Contemporary Art
ART HIST 367	American Architecture: Colonial and Federal
ART HIST 368	American Architecture: The 19th Century
ART HIST 390	Pre-Columbian Art
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed
ART HIST 457	History of American Vernacular Architecture and Landscapes
ART HIST 463	Topics in American Material Culture
ART HIST 468	Frank Lloyd Wright

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

## THEORY AND METHOD DISTRIBUTION

Of the nine required ART HIST courses, at least one course from:

Code	Title	Credits
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 355	History of Photography	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 449	Topics in Architectural History	
ART HIST 463	Topics in American Material Culture	
ART HIST/DS 464/ HISTORY 464	Dimensions of Material Culture	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 601	Introduction to Museum Studies I	
ART HIST 602	Introduction to Museum Studies II	
ART HIST 603	Curatorial Studies Colloquium	
ART HIST/ LCA 621	Mapping, Making, and Representing Colonial Spaces	
ART HIST/ HISTORY/JOURN/ L I S 650	History of Books and Print Culture in Europe and North America	

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in ART HIST and major courses

2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>

15 credits in ART HIST taken on the UW–Madison campus

<sup>2</sup> ART HIST courses numbered 300–699 are considered upper level in the major.

## EMPHASIS IN ASIAN ART HISTORY

Students with an interest in Asian art history may complete the art history major by completing the following requirements and the Residence & Quality of Work Requirements above.

## ASIAN ART TRACK REQUIREMENTS

Code	Title	Credits
<i>Foreign Language</i>		
Select one of the following:		
4 semesters of Asian Language		
3 semesters of one Asian language AND 2 semesters of additional language		
<i>Asian Studies Courses</i>		
Select two courses in East Asian, South Asian, Southeast Asian, or Central Asian Studies (no language or Art History courses)		
<i>Asian Subfields</i>		
Select three courses in at least two subfields:		
General		
ART HIST 203	Survey of Asian Art	
India		
ART HIST 411	Topics in Asian Art	
China		
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	
ART HIST 371	Chinese Painting	
ART HIST 411	Topics in Asian Art	
Japan		
ART HIST 411	Topics in Asian Art	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
<i>Proseminar in Asian Art</i>		
Select one of the following:		
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
<i>Non-Asian Art Courses (any level)</i>		
Select two courses		
<i>Introductory Course in Western Art</i>		
Select one of the following:		
ART HIST 101	The Study of Art, Present and Past	
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	

## HONORS IN THE MAJOR

Students may declare Honors in the Art History Major in consultation with the Art History undergraduate advisor.

### HONORS IN THE ART HISTORY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Art History students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all ART HIST courses

- Plan and complete a concentration in a specific area or period, earning 6–8 additional intermediate- or advanced-level credits in ART HIST courses or related departments (e.g., history, literature) beyond the usual major or Asian option.
- Take the required 500-level proseminar (above) before beginning the Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in ART HIST 681 Senior Honors Thesis and ART HIST 682 Senior Honors Thesis, for a total of 6 credits, in the chosen area or concentration
- Present an oral report on work in an undergraduate Honors colloquium during the senior year.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

*We prepare our graduates to become effective and powerful communicators, in both written and oral form, in ways that acknowledge diverse audiences in an increasingly global society. Art History provides:*

1. Skill in visual analysis of single images and comparative analysis of multiple images and objects, evaluating a range of elements such as form, color, light, proportion, viewpoint, material, and narrative structure.
2. Proficiency in interpreting images and objects in ways that take into account the historical contexts in which they were produced and received.
3. Consolidation of knowledge across a range of time and geography to reach an understanding of the ways in which art and its meaning are rooted in culture.
4. Ability to locate and enlist research resources in both print and digital form and assess the strengths and weaknesses of various types of resources.
5. Knowledge and skills to interpret images and objects in ways that consider a variety of theoretical perspectives.
6. Ability to assess and critique scholarly arguments and evaluate the strength of the visual and textual evidence presented.

## ADVISING AND CAREERS

### ADVISING

The Department of Art History individually mentors its majors toward careers in a wide range of fields. Our academic advisor and director of undergraduate studies are always available to discuss postdegree options. We also work closely with the L&S Career Services office to help students best apply the knowledge and skills acquired in the art history major in conjunction with other certificates or majors. We encourage majors to seek information from art history faculty and advisors—as well as from L&S Advising—about career paths and internships; preparation for the job search; and applying to graduate school. Both the department and L&S also provide networking opportunities with professionals in the field (employers and alumni).

Letters & Science graduates, and art history majors in particular, have unique perspectives, knowledge, and skills that make them highly desirable to today's employers.

Students who wish to continue on to graduate studies in art history or related fields, or who simply desire more advanced work in art history, are strongly encouraged to pursue Honors in the Major. Students should begin to plan honors work in art history with their honors advisor as early as possible in their careers and should check with the departmental undergraduate advisor at least once a year to seek guidance about planning the best possible Honors in the Major curriculum that reflects their special interests.

#### Notes about the major requirements:

- Art history AP credits with a score of 4 or higher and 100-level art history courses count only toward the nine course minimum but do not count toward distribution requirements.
- Courses at the 200-level count only toward the nine course minimum and 200-level requirements for the major (ART HIST 206 and ART HIST/AFROAMER 242 are exceptions).
- ART HIST/AFROAMER 242 is the only 200-level course that counts toward any content distribution requirements.
- All courses numbered between 200 and 680 count toward level requirements. 600-level courses generally count toward the 400-level requirement.
- Most courses at the 300 and 400 level, and some courses at the 600 level, count toward content distribution requirements. (Example: ART HIST 305 may count in each of the following requirement areas: **1.** 300 level *AND* **2.** Chronological—either Ancient to Medieval or Early Modern *AND* **3.** Geographic—either Cross-Cultural Diaspora or Africa/Middle East)
- Proseminars generally do not satisfy distribution requirements.
- Special topics (including ART HIST 600 Special Topics in Art History) and study abroad courses may satisfy one or more distribution requirements. The following courses may satisfy distribution requirements even if they are not shown in Chronological, Geographic, or Theory and Method categories. In case of questions about how a course might count, students should consult the major advisor.
- Courses footnoted in the Requirements section may meet more than one are of Chronological distribution, Geographical distribution, or both. In nearly all cases, the degree audit (DARS) will select the most advantageous category for students to complete their requirement.

In the rare case that an adjustment is necessary, consult the major advisor.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

#### Art History Department Resources

- Art history career advising webpage (<http://arthistory.wisc.edu/resources-advising.htm>)
- What to do with an art history degree? (<http://arthistory.wisc.edu/why-major-in-art-history.htm>)
- Art history majors discuss the value of the degree (<http://arthistory.wisc.edu/testimonials.htm>)
- Art history's internship course: ART HIST 697 Undergraduate Curatorial Studies Internship (Directed Study)

**697 Undergraduate Curatorial Studies Internship (Directed Study).** This directed study may serve as an elective for the new undergraduate certificate in Curatorial Studies, as an elective for the material culture certificate program, or for a specific stand-alone project. The goal is to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: assisting a curator or registrar with research for an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing catalog entries or essays on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; assisting a curator preparing a dossier for acquisitions; researching conservation histories of objects; provenance research; preparing teaching materials associated with an exhibition or permanent collection either in print or online; preparing and giving public tours of exhibitions or permanent collections; participating in exhibition design. To fulfill a 3-credit internship, the student must average approximately 12 hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of 1 hour each month. Requires permission to work with faculty member to receive credit for internship project. 1–3 cr.

- Art History Internships (<http://arthistory.wisc.edu/internship-opportunities-for-undergraduates.htm>)
- Links to relevant career preparation information listed on professional association's website:

<https://www3.nd.edu/~crosenbe/jobs.html>



<https://www.utm.utoronto.ca/careers/careers-by-major-art-art-history>  
<http://www.eduref.net/art-history-career-guide/>

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, Drewal, Marshall, Martin, Phillips (Chair)

Associate Professors McClure, Phillips-Court

Assistant Professors Brisman, Li, Pruitt

Adjunct Lecturers Fuller, Panczenko

Affiliate Professors Aylward, Clark, Kern, Nadler

Affiliate Associate Professor Abdu'Allah

Affiliate UW–Milwaukee Associate Professor Sen

Affiliate UW–Milwaukee Assistant Professors Benyamin, Moon

## ART HISTORY, B.S.

### OVERVIEW

The art history major provides a foundation for answering key questions about what it means to be human as well as valuable skills for today's workplaces. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis, problem-solving, writing and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories.

### STUDY ABROAD

The department strongly encourages art history majors to participate in study abroad programs. Students gain firsthand experience of other cultures and languages and have the opportunity to study major artistic monuments. Credit for appropriate coursework can be applied toward the major after arrangements have been made with the study abroad program, or, in the case of non–UW study abroad programs, the Office of Admissions (<http://www.admissions.wisc.edu/equivalencies>). For more information, see the Study Abroad website (<http://www.studyabroad.wisc.edu>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS IN THE MAJOR

### FOREIGN LANGUAGE

Note: A unit is one year of high school work or one semester/term of college work.

1. Complete the fourth unit of a foreign language; *or*
2. Complete the third unit of a foreign language *and* the second unit of an additional foreign language

### LEVEL REQUIREMENTS

Nine (9) courses in ART HIST as follows:

#### 200-level ART HIST (two required)

Code	Title	Credits
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 203	Survey of Asian Art	
ART HIST/ AFROAMER 204	Introduction to Visual Cultures	
ART HIST 205	Global Arts	
ART HIST 208	Western Architecture: Renaissance to Modern	
ART HIST 227	The Ends of Modernism	
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	
ART HIST/ ANTHRO/DS 264/ HISTORY/ LAND ARC 264	Dimensions of Material Culture	

#### 300-level ART HIST (three required)

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	

ART HIST 301	Myths, Loves, and Lives in Greek Vases
ART HIST 302	Greek Sculpture
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome
ART HIST 305	History of Islamic Art and Architecture
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present
ART HIST 310	Early Christian and Byzantine Art
ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 320	Italian Renaissance Art
ART HIST 321	Italian Art: 1250-1400
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel
ART HIST 333	Netherlandish Painting of the 17th Century
ART HIST 334	Prints and Master Printmakers of the Western World
ART HIST 335	Study Abroad in Ancient/Medieval Art
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art
ART HIST 337	Study Abroad in 18th-20th Century Art
ART HIST 338	Study Abroad in African/Asian Art
ART HIST 341	Italian Baroque Art
ART HIST 346	British Art and Society from the Eighteenth Century to the Present
ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST 355	History of Photography
ART HIST 357	European Architecture: The Nineteenth Century
ART HIST 358	European Architecture: The Modern Movements
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations

ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present
ART HIST 365	The Concept of Contemporary Art
ART HIST 367	American Architecture: Colonial and Federal
ART HIST 368	American Architecture: The 19th Century
ART HIST 371	Chinese Painting
ART HIST 372	Arts of Japan
ART HIST/ RELIG ST 373	Great Cities of Islam
ART HIST 375	Later Japanese Painting and Woodblock Prints
ART HIST/ LCA 379	Cities of Asia
ART HIST 390	Pre-Columbian Art

**400-level ART HIST (two required)**

Code	Title	Credits
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST 411	Topics in Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 420	Topics in Italian Renaissance Art	
ART HIST 425	Race and Gender in Italian Early Modern Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed	
ART HIST 435	Study Abroad in Ancient/Medieval Art	
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 437	Study Abroad in 18th-20th Century Art	
ART HIST 438	Study Abroad in African/Asian Art	
ART HIST 440	Art and Power in the Arab World	
ART HIST 449	Topics in Architectural History	
ART HIST 454	Art in Germany, 1900-1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes	

ART HIST 463	Topics in American Material Culture
ART HIST/DS 464/ HISTORY 464	Dimensions of Material Culture
ART HIST 468	Frank Lloyd Wright
ART HIST 469	Interdisciplinary Studies in the Arts
ART HIST 475	Japanese Ceramics and Allied Arts
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan
ART HIST 479	Art and History in Africa

**500-level ART HIST (one required)**

Code	Title	Credits
ART HIST 500	Proseminar: Special Topics in Art History	
ART HIST 505	Proseminar in Ancient Art	
ART HIST 506	Curatorial Studies Exhibition Practice	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 525	Proseminar in Italian Renaissance Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
ART HIST 563	Proseminar in Material Culture	
ART HIST 565	Proseminar in American Art	
ART HIST 567	Proseminar in American Architecture	
ART HIST 569	Interdisciplinary Studies in the Arts	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
ART HIST 579	Proseminar in African Art	

**Electives to meet minimum nine courses required**

Code	Title	Credits
ART HIST 100-699		

**CHRONOLOGICAL DISTRIBUTION**

Of the nine required ART HIST courses, at least one course from each area:

**Ancient to Medieval**

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 310	Early Christian and Byzantine Art	

ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 321	Italian Art: 1250-1400
ART HIST 335	Study Abroad in Ancient/Medieval Art
ART HIST 371	Chinese Painting <sup>1</sup>
ART HIST 372	Arts of Japan <sup>1</sup>
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>
ART HIST 390	Pre-Columbian Art
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 413	Art and Architecture in the Age of the Caliphs
ART HIST/ MEDIEVAL 415	Topics in Medieval Art
ART HIST 435	Study Abroad in Ancient/Medieval Art
ART HIST 440	Art and Power in the Arab World <sup>1</sup>
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Early Modern (Circa 1400–Circa 1800)

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present <sup>1</sup>	
ART HIST 320	Italian Renaissance Art	
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel	
ART HIST 333	Netherlandish Painting of the 17th Century	
ART HIST 334	Prints and Master Printmakers of the Western World <sup>1</sup>	
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 341	Italian Baroque Art	
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations	

ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>
ART HIST 371	Chinese Painting <sup>1</sup>
ART HIST 372	Arts of Japan <sup>1</sup>
ART HIST 375	Later Japanese Painting and Woodblock Prints
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>
ART HIST 420	Topics in Italian Renaissance Art
ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Modern (Circa 1800–Circa 1945)

Code	Title	Credits
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present <sup>1</sup>	
ART HIST 334	Prints and Master Printmakers of the Western World <sup>1</sup>	
ART HIST 337	Study Abroad in 18th-20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	European Architecture: The Nineteenth Century	
ART HIST 358	European Architecture: The Modern Movements	
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>	
ART HIST 367	American Architecture: Colonial and Federal	
ART HIST 368	American Architecture: The 19th Century	
ART HIST 371	Chinese Painting <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 407	Topics in Nineteenth Century Art	

ART HIST 408	Topics in Twentieth-Century Art
ART HIST/ LCA 428	Visual Cultures of South Asia
ART HIST 437	Study Abroad in 18th-20th Century Art
ART HIST 454	Art in Germany, 1900-1945
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>
ART HIST 463	Topics in American Material Culture
ART HIST 468	Frank Lloyd Wright
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Contemporary (Post 1945)

Code	Title	Credits
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST 365	The Concept of Contemporary Art	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 469	Interdisciplinary Studies in the Arts	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

## GEOGRAPHIC DISTRIBUTION

Of the nine required ART HIST courses, at least one course from **three** of these **five** areas:

### Cross-Cultural/Diaspora

Code	Title	Credits
ART HIST/ AFROAMER 242	Introduction to Afro-American Art	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	

ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>
ART HIST 440	Art and Power in the Arab World <sup>1</sup>
ART HIST/ AFROAMER 643	Selected Topics in African Diaspora Art History

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Africa/Middle East

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 479	Art and History in Africa	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Asia

Code	Title	Credits
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 371	Chinese Painting	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST/ LCA 379	Cities of Asia <sup>1</sup>	
ART HIST 411	Topics in Asian Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

### Europe

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	

ART HIST 301	Myths, Loves, and Lives in Greek Vases
ART HIST 302	Greek Sculpture
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome
ART HIST 310	Early Christian and Byzantine Art
ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 320	Italian Renaissance Art
ART HIST 321	Italian Art: 1250-1400
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel
ART HIST 333	Netherlandish Painting of the 17th Century
ART HIST 334	Prints and Master Printmakers of the Western World
ART HIST 341	Italian Baroque Art
ART HIST 346	British Art and Society from the Eighteenth Century to the Present
ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>
ART HIST 355	History of Photography <sup>1</sup>
ART HIST 357	European Architecture: The Nineteenth Century
ART HIST 358	European Architecture: The Modern Movements
ART HIST 360	Early Modern Art of Northern Europe: Renaissances and Reformations
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 407	Topics in Nineteenth Century Art
ART HIST 408	Topics in Twentieth-Century Art
ART HIST/ MEDIEVAL 415	Topics in Medieval Art
ART HIST 420	Topics in Italian Renaissance Art
ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 454	Art in Germany, 1900-1945

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

<b>The Americas</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 367	American Architecture: Colonial and Federal	
ART HIST 368	American Architecture: The 19th Century	
ART HIST 390	Pre-Columbian Art	
ART HIST 433	Sign, Symbol, Stereotype: Native Icons Revealed	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
ART HIST 463	Topics in American Material Culture	
ART HIST 468	Frank Lloyd Wright	

<sup>1</sup> Course is eligible fulfill more than one Chronological or Geographical area, but that course may only satisfy one Chronological and one Geographical area. See Advising and Careers section for more information.

## THEORY AND METHOD DISTRIBUTION

Of the nine required ART HIST courses, at least one course from:

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 355	History of Photography	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 432	Multiculturalism and the New Museology	
ART HIST 449	Topics in Architectural History	
ART HIST 463	Topics in American Material Culture	
ART HIST/DS 464/ HISTORY 464	Dimensions of Material Culture	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 601	Introduction to Museum Studies I	
ART HIST 602	Introduction to Museum Studies II	
ART HIST 603	Curatorial Studies Colloquium	
ART HIST/ LCA 621	Mapping, Making, and Representing Colonial Spaces	
ART HIST/ HISTORY/JOURN/ L I S 650	History of Books and Print Culture in Europe and North America	

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in ART HIST and major courses

2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>

15 credits in ART HIST taken on the UW–Madison campus

<sup>2</sup> ART HIST courses numbered 300–699 are considered upper level in the major.

## EMPHASIS IN ASIAN ART HISTORY

Students with an interest in Asian art history may complete the art history major by completing the following requirements and the Residence & Quality of Work Requirements above.

### ASIAN ART TRACK REQUIREMENTS

Code	Title	Credits
<i>Foreign Language</i>		
Select one of the following:		
4 semesters of Asian Language		
3 semesters of one Asian language AND 2 semesters of additional language		
<i>Asian Studies Courses</i>		
Select two courses in East Asian, South Asian, Southeast Asian, or Central Asian Studies (no language or Art History courses)		
<i>Asian Subfields</i>		
Select three courses in at least two subfields:		
General		
ART HIST 203	Survey of Asian Art	
India		
ART HIST 411	Topics in Asian Art	
China		
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	
ART HIST 371	Chinese Painting	
ART HIST 411	Topics in Asian Art	
Japan		
ART HIST 411	Topics in Asian Art	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
<i>Proseminar in Asian Art</i>		
Select one of the following:		
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
<i>Non-Asian Art Courses (any level)</i>		
Select two courses		
<i>Introductory Course in Western Art</i>		
Select one of the following:		
ART HIST 101	The Study of Art, Present and Past	
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	

## HONORS IN THE MAJOR

Students may declare Honors in the Art History Major in consultation with the Art History undergraduate advisor.

### HONORS IN THE ART HISTORY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Art History students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all ART HIST courses
- Plan and complete a concentration in a specific area or period, earning 6–8 additional intermediate- or advanced-level credits in ART HIST courses or related departments (e.g., history, literature) beyond the usual major or Asian option.
- Take the required 500-level proseminar (above) before beginning the Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in ART HIST 681 Senior Honors Thesis and ART HIST 682 Senior Honors Thesis, for a total of 6 credits, in the chosen area or concentration
- Present an oral report on work in an undergraduate Honors colloquium during the senior year.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## HOW TO GET IN

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged. More detailed information can be found at Declaring the Art History Major (<http://arthistory.wisc.edu/declaring-the-art-history-major.htm>).

## LEARNING OUTCOMES

1. Ability to employ techniques for visual analysis (examining features such as materials, proportion, light, color, form and narrative structure) of single images and for comparative analysis of multiple images and objects.
2. Proficiency in interpreting images/objects in ways that take into account the historical contexts in which they were produced and received.
3. Consolidation of knowledge across a range of time and geography to reach an understanding of the ways in which art and its meaning are rooted in culture.
4. Ability to locate and enlist research resources in both print and digital form and assess the strengths and weaknesses of various types of resources.
5. Knowledge and skills necessary to interpret images/objects in ways that consider a variety of theoretical perspectives.
6. Ability to assess and critique scholarly arguments and evaluate the strength of the visual and textual evidence presented.
7. Skills that prepare our graduates to become effective and impactful communicators in both written and oral form in ways that acknowledge diverse audiences in an increasingly global society.

## ADVISING AND CAREERS

### ADVISING

The Department of Art History individually mentors its majors toward careers in a wide range of fields. Our academic advisor and director of undergraduate studies are always available to discuss postdegree options. We also work closely with the L&S Career Services office to help students best apply the knowledge and skills acquired in the art history major in conjunction with other certificates or majors. We encourage majors to seek information from art history faculty and advisors—as well as from L&S Advising—about career paths and internships; preparation for the job search; and applying to graduate school. Both the department and L&S also provide networking opportunities with professionals in the field (employers and alumni).

Letters & Science graduates, and art history majors in particular, have unique perspectives, knowledge, and skills that make them highly desirable to today's employers.

Students who wish to continue on to graduate studies in art history or related fields, or who simply desire more advanced work in art history, are strongly encouraged to pursue Honors in the Major. Students should begin to plan honors work in art history with their honors advisor as early as possible in their careers and should check with the departmental undergraduate advisor at least once a year to seek guidance about planning the best possible Honors in the Major curriculum that reflects their special interests.

#### Notes about the major requirements:

- Art history AP credits with a score of 4 or higher and 100-level art history courses count only toward the nine course minimum but do not count toward distribution requirements.

- Courses at the 200-level count only toward the nine course minimum and 200-level requirements for the major (ART HIST 206 and ART HIST/AFROAMER 242 are exceptions).
- ART HIST/AFROAMER 242 is the only 200-level course that counts toward any content distribution requirements.
- All courses numbered between 200 and 680 count toward level requirements. 600-level courses generally count toward the 400-level requirement.
- Most courses at the 300 and 400 level, and some courses at the 600 level, count toward content distribution requirements. (Example: ART HIST 305 may count in each of the following requirement areas: **1.** 300 level *AND* **2.** Chronological—either Ancient to Medieval or Early Modern *AND* **3.** Geographic—either Cross-Cultural Diaspora or Africa/Middle East)
- Proseminars generally do not satisfy distribution requirements.
- Special topics (including ART HIST 600 Special Topics in Art History) and study abroad courses may satisfy one or more distribution requirements. The following courses may satisfy distribution requirements even if they are not shown in Chronological, Geographic, or Theory and Method categories. In case of questions about how a course might count, students should consult the major advisor.
- Courses footnoted in the Requirements section may meet more than one are of Chronological distribution, Geographical distribution, or both. In nearly all cases, the degree audit (DARS) will select the most advantageous category for students to complete their requirement. In the rare case that an adjustment is necessary, consult the major advisor.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

#### Art History Department Resources

- Art history career advising webpage (<http://arthistory.wisc.edu/resources-advising.htm>)
- What to do with an art history degree? (<http://arthistory.wisc.edu/why-major-in-art-history.htm>)
- Art history majors discuss the value of the degree (<http://arthistory.wisc.edu/testimonials.htm>)
- Art history's internship course: ART HIST 697 Undergraduate Curatorial Studies Internship (Directed Study)

**697 Undergraduate Curatorial Studies Internship (Directed Study).** This directed study may serve as an elective for the new undergraduate certificate in Curatorial Studies, as an elective for the material culture certificate program, or for a specific stand-alone project. The goal is to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but



to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: assisting a curator or registrar with research for an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing catalog entries or essays on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; assisting a curator preparing a dossier for acquisitions; researching conservation histories of objects; provenance research; preparing teaching materials associated with an exhibition or permanent collection either in print or online; preparing and giving public tours of exhibitions or permanent collections; participating in exhibition design. To fulfill a 3-credit internship, the student must average approximately 12 hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of 1 hour each month. Requires permission to work with faculty member to receive credit for internship project. 1–3 cr.

- Art History Internships (<http://arthistory.wisc.edu/internship-opportunities-for-undergraduates.htm>)
- Links to relevant career preparation information listed on professional association's website:

<https://www3.nd.edu/~crosenbe/jobs.html>

<https://www.utm.utoronto.ca/careers/careers-by-major-art-art-history>  
<http://www.eduref.net/art-history-career-guide/>

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, Drewal, Marshall, Martin, Phillips (Chair)

Associate Professors McClure, Phillips-Court

Assistant Professors Brisman, Li, Pruitt

Adjunct Lecturers Fuller, Panczenko

Affiliate Professors Aylward, Clark, Kern, Nadler

Affiliate Associate Professor Abdu'Allah

Affiliate UW–Milwaukee Associate Professor Sen

Affiliate UW–Milwaukee Assistant Professors Benjamin, Moon

## MATERIAL CULTURE STUDIES, CERTIFICATE

The certificate in material culture studies has two interrelated goals. First, students will become acquainted with the field of material culture studies and its methodologies. They will learn what kinds of objects are considered in the study of material culture (from small, intimate artifacts of daily life to large cultural landscapes) and how scholars and professionals from different fields and in different contexts enlist material culture in their research and activities. They will gain an appreciation for the information artifacts can provide. They will learn the kinds of questions that can be asked of objects and the kind of information that artifacts can show us. They will become familiar with (and able to

distinguish between) descriptive and interpretive components of material culture study, and gain an awareness of the variety of methods. Second, students will gain an appreciation for the ways that “things” help us to connect to the world and see it in a new way, and the ways “things” give meaning to our lives and the lives of those around us.

## HOW TO GET IN

Students are required to declare the material culture studies certificate with the program's certificate faculty director, Professor Ann Smart Martin. Students are strongly urged to meet with the faculty director at their earliest convenience to declare the certificate. Professor Smart Martin can be reached at [asmartin@wisc.edu](mailto:asmartin@wisc.edu) or by phone at 608-263-5684 to set up an appointment.

## REQUIREMENTS

The Material Culture Studies Certificate Program requires that students complete **13 credits** which includes the two core courses and two elective courses from the list below. An internship/practicum experience is recommended.

Code	Title	Credits
<b>Core Courses (select two):</b>		
ART HIST/ANTHRO/ DS 264/HISTORY/ LAND ARC 264	Dimensions of Material Culture <sup>1</sup>	4
ART HIST 563	Proseminar in Material Culture <sup>2</sup>	3
<b>Electives:</b>		
Select at least two courses to reach 13 credit minimum: <sup>3</sup>		6
ANTHRO 212	Principles of Archaeology	3
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	3
ANTHRO/ AMER IND 355	Archaeology of Eastern North America	3
ANTHRO 370	Field Course in Archaeology	3-6
ANTHRO 391	Bones for the Archaeologist	3
ANTHRO 696	Archaeological Methods of Curation	1-3
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	3-4
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	3
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	3
ART HIST/ DS 363 363	American Decorative Arts and Interiors: 1620-1840	3-4
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	3-4
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST/LCA 428	Visual Cultures of South Asia	3

ART HIST 457	History of American Vernacular Architecture and Landscapes	3	SCAND ST 296	The Scandinavian Heritage in America	3
ART HIST 463	Topics in American Material Culture	3-4	SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	3
ART HIST 468	Frank Lloyd Wright	3-4	THEATRE 327	History of Costume for the Stage	3
ART HIST 475	Japanese Ceramics and Allied Arts	3			
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3			
ART HIST 506	Curatorial Studies Exhibition Practice (Both 601 & 602)	3			
ART HIST 601	Introduction to Museum Studies I (Must complete both 601 & 602)	3			
ART HIST 602	Introduction to Museum Studies II (Must complete both 601 & 602)	3			
ART HIST/HISTORY/ JOURN/L I S 650	History of Books and Print Culture in Europe and North America	3			
DS 355	History of Fashion, 1400-Present	3			
DS 360	Global Perspectives on Design and Culture	3			
DS 420	Twentieth Century Design	3			
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3			
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3			
DS 430	History of Textiles	3			
DS 642	Taste	3			
DS 655/ FOLKLORE DS 655	Comparative World Dress	3			
FOLKLORE 320	Folklore of Wisconsin	3			
FOLKLORE 439	Foodways	3			
FOLKLORE/L I S 490	Field Methods and the Public Presentation of Folklore	3			
FOLKLORE/ MUSIC 535	American Folk and Vernacular Music	3			
FOLKLORE/ ANTHRO/MUSIC/ THEATRE 539	The Folklore of Festivals and Celebrations	3			
FOLKLORE 540	Local Culture and Identity in the Upper Midwest	3			
FOLKLORE/ ANTHRO 639	Field School: Ethnography of Wisconsin Festivals	6-8			
FOLKLORE/ DS 655 655	Comparative World Dress	3			
GEOG/URB R PL 305	Introduction to the City	3-4			
GEOG 342	Geography of Wisconsin	3			
GEOG 508	Landscape and Settlement in the North American Past	3			
HIST SCI 222	Technology and Social Change in History	3			
HIST SCI 337	History of Technology	3			
JOURN/ HISTORY 560	History of Mass Communication	4			
LAND ARC 260	History of Landscape Architecture	3			
LAND ARC 677	Cultural Resource Preservation and Landscape History	3			
SCAND ST 284	The "Scandinavian Modern" Phenomenon in Arts and Literature	3			

- 1 Prerequisite: course at the 300 level or above in either art history or design studies. Course is rotated among teams of two faculty members from the core material culture staff. The course explores the field of material culture, introducing the range of approaches and topics within it. Faculty, staff, and professionals from different disciplines and fields are invited to discuss their work and perspective, and discuss current literature. Students are encouraged to take a course from the list to satisfy the prerequisite.
- 2 The intent of this requirement is to teach the methods that material culture studies uses, a set of tools for analysis and how they can be used.
- 3 Choices should be clustered around a focus. For example, one strategy is to take a range of courses related to a specific geographic area, specialization, or time period. Other students may choose to pursue a cluster of courses that emphasizes nationally emerging specializations within the field of material culture including courses related to museums/exhibitions, historic preservation, archival technology, or product design. Students should work with a material culture faculty member to develop this focus. Other courses can be selected as electives from traditional disciplinary approaches and content, but must be approved by the chair of the Material Culture Advisory Committee. Students must work closely with both their advisor within their home major and an advisor among material culture advisors to assure that both major and certificate requirements are fulfilled.

## RESIDENCE AND QUALITY OF WORK

A cumulative 2.000 GPA for all certificate coursework.

7 credits, counting for the certificate, taken in residence.

## LEARNING OUTCOMES

### WHAT MAKES MATERIAL CULTURE DISTINCT FROM OTHER APPROACHES TO STUDYING OBJECTS?

- Material culture emphasizes methods and approaches from a *variety of disciplines*
- The extent of *what students study* in material culture classes is much more extensive in scope than the fine arts that are the domain of disciplines such as art history
- Material culture courses – especially the core courses (Dimensions and Methods) emphasize *hands-on study* to a much greater degree than other approaches within the humanities

### LIST OF LEARNING GOALS

- Acquisition of skills to describe and analyze objects of multiple types, scales and media that constitute the material world across time and space
- Understanding of the complex and multiple ways that objects and people relate in the past and in the present using trans-disciplinary perspectives
- Ability to interpret and otherwise make meaning from objects using methods and theories from multiple disciplines including but not

limited to art history, archaeology, anthropology, design, folklore/folklife studies, geography, history, literary studies, and landscape history and science studies

- Discernment of the importance of materiality and making in the production and shaping of culture
- Fluency in using research resources and tools across appropriate for specific kinds of objects
- Gaining particular skills of object-based research projects and online and in-person exhibitions using objects and collections to prepare students for careers in museums, archives, and other professional contexts
- Coherent presentation of ideas in multiple media (oral, visual, digital, and written).

## ADVISING AND CAREERS

All students should meet with the certificate's faculty director (Professor Ann Smart Martin, 205 Conrad A. Elvehjem Building) at or near the beginning of work on the certificate. At that meeting, students work with the director to outline their course of study, and match a course plan with their interests. After a plan is in place, students are encouraged to stay in regular contact with the undergraduate program advisor (Teddy Kaul, 222 Conrad A. Elvehjem Building; ejkaul@wisc.edu; 608-263-2373) as they continue through the program. Each term the program's director or advisor will contact all certificate students, asking those nearing completion of their certificate coursework to send a notification. For more information about the certificate, current course offerings, and contact information for the advisor, see the program website (<http://materialculture.wisc.edu>).

## PEOPLE

### CORE FACULTY

Ann Smart Martin, Stanley and Polly Stone Professor, Art History

Anna V. Andrzejewski, Professor, Art History

William Aylward, Professor, Classics

Janet Gilmore, Associate Professor, Landscape Architecture

Sherry Harlacher, Associate Faculty Associate, Integrative Design

Catherine M. Jackson, Assistant Professor, History

Yuhang Li, Assistant Professor, Art History

Mark Nelson, Professor, Design Studies

Lynn K. Nyhart, Vilas-Bablitch-Kelch Distinguished Achievement Professor, History

Monica Penick, Assistant Professor, Design Studies

Jennifer Pruitt, Assistant Professor, Art History

Sissel Schroeder, Professor, Anthropology

Jonathan Senchyne, Assistant Professor, Library and Information Studies

Sarah Thal, Associate Professor, History

Lee Palmer Wandel, Professor, History

### AFFILIATE FACULTY

Jonathan Mark Kenoyer, Professor, Anthropology

Tom Loeser, Professor, Art

Nicholas Cahill, Professor, Art History

Preeti Chopra, Associate Professor, Art History

Thomas Dale, Professor, Art History

Henry Drewal, Professor, Art History

Quitman Phillips, Professor, Art History

### ASSOCIATED MUSEUM PROFESSIONALS

Jody Clowes, Director, James Watrous Gallery

Sarah Carter, Curator, Chipstone Foundation

Russell Panczenko, Director, Chazen Museum of Art

Jon Prown, Director, Chipstone Foundation

Maria Saffiotti Dale, Curator, Chazen Museum of Art

### BUILDINGS-LANDSCAPES-CULTURES PROGRAM

Arijit Sen, Associate Professor, UW-Milwaukee

James Leary, Professor, Comparative Literature and Folklore Studies

Jung-hye Shin, Associate Professor, Design Studies

Susan Bernstein, Professor, English

Lisa Cooper, Associate Professor, English

Colleen Dunlavy, Professor, History

Nan Enstad, Professor, History

Sam F. Dennis, Jr, Associate Professor, Landscape Architecture

Susan Cook, Director, School of Music, Music

### ASIAN AMERICAN STUDIES PROGRAM

The Program in Asian American Studies is an interdisciplinary research, arts and teaching program that focuses on Asian Americans and Asian immigrants in the U.S., Southeast Asians and Asians in the Americas, and Pacific Islanders, both historically and in contemporary society. The certificate program provides students with an opportunity to develop a sustained intellectual focus on Asian American racial formation, communities, and culture.

Courses offered by the program and through other departments incorporate the perspective of a variety of disciplines: anthropology, communication arts, cultural studies dance, education, English, ethnic studies, film, history, human development and family studies, journalism,

literature, media, political science, popular culture, psychology, sociology, theatre, and visual arts. New course topics are introduced each year. Examples of past topics include: Asian American history, Asian American literature, Asian American women writers, Asian Americans in the Midwest, Hmong American studies, Contemporary Legal Issues in Asian American Communities, Mixed Race Asian Americans, Asian American Cultural Politics, Southeast Asian Americans in U.S. schools, Asian American Dance, Asian Americans & Media, Afro-Asian Improvisational Dance, Psychology of Hmong Americans, and community based research and service learning courses.

Many program courses fulfill the ethnic studies requirement and breadth requirements in the appropriate divisions.

## DEGREES/MAJORS/CERTIFICATES

- Asian American Studies, Certificate (p. 380)

## PEOPLE

Professors Bow (English/Asian American Studies), Fujimura (Sociology), Gloria (Counseling Psychology), Lee (Educational Policy Studies), Macken (Linguistics), Matsumura (Business), Oliver (Sociology), Shah (Journalism and Mass Communication), Thornton (Afro-American Studies), Uttal (Counseling Psychology), Young (English), Yu (English/Asian American Studies)

Associate Professors Baird (Geography), Cheng (History/Asian American Studies), Choy (Dance/Asian American Studies), Lopez (Communication Arts)

Lecturers Cullinane (Center for Southeast Asian Studies), Jew (Asian American Studies), Miyasaki (Asian American Studies)

Associates Holtzman (McNair/SROP Programs), Inoway-Ronnie (Academic Affairs), Tong (Institute for Cross-College Biology Education)

## ASIAN AMERICAN STUDIES, CERTIFICATE

The Program in Asian American Studies is an interdisciplinary research, arts and teaching program that focuses on Asian Americans and Asian immigrants in the U.S., Southeast Asians and Asians in the Americas, and Pacific Islanders, both historically and in contemporary society. The certificate program provides students with an opportunity to develop a sustained intellectual focus on Asian American racial formation, communities, and culture.

Courses offered by the program and through other departments incorporate the perspective of a variety of disciplines: anthropology, communication arts, cultural studies dance, education, English, ethnic studies, film, history, human development and family studies, journalism, literature, media, political science, popular culture, psychology, sociology, theatre, and visual arts. New course topics are introduced each year. Examples of past topics include: Asian American history, Asian American literature, Asian American women writers, Asian Americans in the Midwest, Hmong American Studies, Contemporary Legal Issues in Asian American Communities, Mixed Race Asian Americans, Asian American Cultural Politics, Southeast Asian Americans in U.S. Schools, Asian American Dance, Asian Americans and Media, Afro-Asian Improvisational

Dance, Psychology of Hmong Americans, and community-based research and service-learning courses.

Many program courses fulfill the ethnic studies requirement and breadth requirements in the appropriate divisions.

## HOW TO GET IN

Please stop by our main office (303 Ingraham Hall) or schedule an appointment with the director to declare the Asian American studies certificate.

## REQUIREMENTS

Students gain knowledge about specific ethnic groups, socioeconomic political histories, cultures, and contemporary issues through an Asian American lens.

### 15 CREDITS ARE REQUIRED, TO INCLUDE:

Code	Title	Credits
ASIAN AM 101	Introduction to Asian American Studies	3
<b>Core - 9 credits from:</b>		<b>9</b>
ASIAN AM/ DANCE 121	Asian American Movement	
ASIAN AM/ ENGL 150	Literature & Culture of Asian America	
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	
ASIAN AM 240	Topics in Asian American Studies	
ASIAN AM 260	Topics in Asian American Culture	
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	
ASIAN AM/ COM ARTS 420	Asian Americans and Media	
ASIAN AM/ ENGL 462	Topic in Asian American Literature	
ASIAN AM/ENGL/ GEN&WS 463	Race and Sexuality in American Literature	
ASIAN AM/ENGL/ GEN&WS 464	Asian American Women Writers	
ASIAN AM/ ENGL 465	Asian American Poetry	
ASIAN AM 540	Special Topics	
ASIAN AM 560	Humanities Topics	
<b>Comparative course - 3 credits from:</b>		<b>3</b>
ASIAN AM/ CHICLA/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	
ASIAN AM/ SOC 220	Ethnic Movements in the United States	
ASIAN AM/ HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	

ASIAN AM/ E A STDS/ HISTORY 276	Chinese Migrations since 1500
ASIAN AM/ AFROAMER 443	Mutual Perceptions of Racial Minorities
ASIAN AM/ JOURN 662	Mass Media and Minorities
Total Credits	15

## RESIDENCE & QUALITY OF WORK

2.750 GPA on all certificate approved courses

8 credits in the certificate, in residence

## ADVISING AND CAREERS

Please contact the director of Asian American studies to set up an advising appointment.

## PEOPLE

Professors Bow (English/Asian American Studies), Fujimura (Sociology), Gloria (Counseling Psychology), Lee (Educational Policy Studies), Macken (Linguistics), Matsumura (Business), Oliver (Sociology), Shah (Journalism and Mass Communication), Thornton (Afro-American Studies), Uttal (Counseling Psychology) Young (English), Yu (English/Asian American Studies); Associate Professors Baird (Geography), Cheng (History/Asian American Studies), Choy (Dance/Asian American Studies) Lopez (Communication Arts); Lecturers Cullinane (Center for Southeast Asian Studies), Jew (Asian American Studies), Miyasaki (Asian American Studies); Associates Holtzman (McNair/SROP Programs), Inoway-Ronnie (Academic Affairs), Tong (Institute for Cross College Biology Education)

## ASIAN LANGUAGES AND CULTURES

The Department of Asian Languages and Cultures (ALC) at UW-Madison was established on July 1, 2016 merging the preexisting departments of East Asian Languages & Literature (EALL) and Languages & Cultures of Asia (LCA).

ALC is student-centered and driven by research that is integrated into the classroom. With thematic foci in Asian languages, linguistics and literature, Asian cultural studies, religions of Asia, and critical issues in contemporary Asia, we aim to teach students how to recognize and critically analyze the realities of past and present "Asia" as a region that is crucial to the global flows of people, materials, and ideas through its own rich complexity with deep interconnection across multiple domains. At the same time, within this context of connections across Asia, we also seek to promote deep learning and knowledge of particular languages, time periods, and places, since in order to understand transasian regional and global networks, our students also need to acquire specific cultural and linguistic competencies.

We encourage students to study Asia in a regional and comparative frame while cultivating scholarly capacities in particular aspects of Asian culture. To that end, we offer multiple degree options at the B.A. level, reflecting departmental research strengths that allow students to approach the study of Asian cultures, languages, media, religions, and critical social issues from a variety of perspectives. We seek to enhance

both teaching and research through collaborations within the department and beyond, with particular emphasis on the development of robust connections with scholars at our peer institutions throughout Asia.

## UNDERGRADUATE MAJORS

Chinese (p. 384)  
Japanese (p. 396)

Forthcoming major (fall 2018): Asian Languages and Cultures

## UNDERGRADUATE CERTIFICATES

Chinese (p. 382) Professional Communication (p. 382)  
Japanese Professional Communication (p. 393)

## DEGREES/MAJORS/CERTIFICATES

- Chinese Professional Communications, Certificate (p. 382)
- Chinese, B.A. (p. 384)
- Chinese, B.S. (p. 389)
- Japanese Professional Communication, Certificate (p. 393)
- Japanese, B.A. (p. 396)
- Japanese, B.S. (p. 400)
- Languages and Cultures of Asia, B.A. (p. 404)
- Languages and Cultures of Asia, B.S. (p. 410)

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

### EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

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Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

## SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

## SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

## LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

## STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator ([alc@letscli.wisc.edu](mailto:alc@letscli.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## CHINESE PROFESSIONAL COMMUNICATIONS, CERTIFICATE

The certificate in Chinese professional communication provides students with the opportunity to develop proficiency in Chinese while pursuing majors in other subjects across the university. It emphasizes the development of communication skills that are applicable to various professional contexts that students may encounter in their future careers.

The certificate is open to all undergraduate students (except for those majoring in Chinese). It is available to Special students only in circumstances where they have completed more than half of the 12-credit requirements discussed below as UW–Madison undergraduates in the semesters preceding their Special student enrollment.

For more information about the Department of Asian Languages and Cultures see the department overview (p. 381).

## HOW TO GET IN

## DECLARING THE CERTIFICATE

If you would like to declare the certificate in Chinese professional communication, please meet with the undergraduate advisor, [rweiss@wisc.edu](mailto:rweiss@wisc.edu), to review the requirements, discuss courses, and to submit the declaration request.

## REQUIRED PREREQUISITE LANGUAGE COURSES

Code	Title	Credits
For non-heritage speakers:		
E ASIAN 101	First Semester Chinese	
E ASIAN 102	Second Semester Chinese	
E ASIAN 201	Third Semester Chinese	
E ASIAN 202	Fourth Semester Chinese	
For heritage Chinese speaking students:		
E ASIAN 213	First Semester Heritage Chinese	6
E ASIAN 214	Second Semester Heritage Chinese	6

Students may test for competency, and be awarded credit by examination, if they have prior knowledge in Chinese language. Contact the program office with questions about the credit by examination process.

## PLACEMENT TESTS

Students who are new to the program must take a placement test before enrolling in a language course beyond the first unit. More information here (<http://alc.wisc.edu/languages/placement-tests>).

## REQUIREMENTS

### 12 CREDITS FROM:

Code	Title	Credits
E ASIAN 379	Business Chinese	3
<b>Chinese Language:</b>		<b>6</b>
E ASIAN 301	Fifth Semester Chinese	
E ASIAN 302	Sixth Semester Chinese	
E ASIAN 333	Chinese Conversation	
E ASIAN 401	Seventh Semester Chinese	
E ASIAN 402	Eighth Semester Chinese	
E ASIAN 501	Fifth-year Chinese	
<b>Chinese literature or Humanities:</b>		<b>3</b>
E ASIAN/ RELIG ST 350	Introduction to Taoism	
E ASIAN 351	Survey of Chinese Literature	
E ASIAN 352	Survey of Chinese Literature	
E ASIAN 356	Chinese Painting	
E ASIAN/ RELIG ST 363	Introduction to Confucianism	
E ASIAN 372	Topics in Chinese: Study Abroad	
E ASIAN 431	Introduction to Chinese Linguistics	
E ASIAN 432	Introduction to Chinese Linguistics	
E ASIAN 433	Topics in East Asian Visual Cultures	
HISTORY/ E A STDS 103	Introduction to East Asian History: China	
Total Credits		12

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

6 credits in the certificate, in residence

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.

6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## ADVISING AND CAREERS

### Undergraduate Advisor

#### Rachel Weiss

1244 Van Hise Hall

608-890-0138

[rweiss@wisc.edu](mailto:rweiss@wisc.edu)

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUserTooa.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205

[careers@saa.ls.wisc.edu](mailto:careers@saa.ls.wisc.edu)

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers.

Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>).

### Language & International Directions Advising

Michael Kruse, International Directions Advisor

[mkruse@wisc.edu](mailto:mkruse@wisc.edu)

International Directions advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences.

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## STAFF

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email the Graduate Coordinator ([alc@lets.wisc.edu](mailto:alc@lets.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## CHINESE, B.A.

The Chinese program offers students a range of courses and activities which impart an understanding of the culture and civilization of China. With the completion of three basic years of the language, students will be prepared to handle various types of colloquial Chinese. Most majors pursue advanced studies in Chinese linguistics or literature, while others combine an interest in China with a degree in business, education, engineering or journalism.

For more information about the Department of Asian Languages and Cultures visit the department overview (p. 381).

## STUDY ABROAD IN CHINA

Students may receive residence credit for study abroad through a variety of different programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu>) for details.

Students may also receive credit, or gain experience, through various internship opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu>) for details.



## STARTING COURSEWORK TOWARDS THE MAJOR

Before declaring the major, students are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have Chinese credits from high school or summer sessions may enter advanced courses on the basis of placement tests.

The following courses may be taken with no previous knowledge of Chinese or Japanese:

Code	Title	Credits
E ASIAN 101	First Semester Chinese	6
E ASIAN 103	First Semester Japanese	6
E ASIAN 121	Elementary Chinese	3
E ASIAN 123	Elementary Japanese	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
E ASIAN 341 & E ASIAN 342	Classical Chinese for Non-Majors and Classical Chinese for Non-Majors	8
E ASIAN/RELIG ST 350	Introduction to Taoism	3-4
E ASIAN/RELIG ST 363	Introduction to Confucianism	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 434	Introduction to Japanese Linguistics	3
LITTRANS 261 & LITTRANS 262	Survey of Chinese Literature in Translation and Survey of Chinese Literature in Translation	6
LITTRANS 263 & LITTRANS 264	Survey of Japanese Literature in Translation and Survey of Japanese Literature in Translation	6
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## HOW TO GET IN

### ENROLLMENT INFORMATION

The department requires that students who are new to the program take a placement test before enrolling in a language course beyond the first-semester level. For information about the placement test and test dates, please visit the department website (<http://alc.wisc.edu/languages/placement-tests>). To register for a placement test, please contact Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu)).

## DECLARATION

If you would like to declare the major, please meet with the undergraduate advisor ([rweiss@wisc.edu](mailto:rweiss@wisc.edu)) to review the requirements, discuss courses, and to submit the declaration request.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General Education	Requirements
Breadth—Humanities/Literature/Arts	6 credits
Breadth—Natural Science	4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
Breadth—Social Studies	3 credits
Communication Part A & Part B *	
Ethnic Studies *	
Quantitative Reasoning Part A & Part B *	

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>First &amp; Second Year Language</b>		
<i>First Year Chinese:</i>		
E ASIAN 101 & E ASIAN 102	First Semester Chinese and Second Semester Chinese	
or		
E ASIAN 121 & E ASIAN 122 & E ASIAN 102	Elementary Chinese and Elementary Chinese and Second Semester Chinese	
<i>Second Year Chinese</i>		
E ASIAN 201 & E ASIAN 202	Third Semester Chinese and Fourth Semester Chinese	
<b>Advanced Studies, 27 credits:</b>		
<i>1. Third Year Chinese (2 courses):</i>		
E ASIAN 301	Fifth Semester Chinese	
E ASIAN 302	Sixth Semester Chinese	
<i>2. Classical Chinese Courses (2 courses)</i>		
E ASIAN 321	First Year Classical Chinese	
E ASIAN 322	First Year Classical Chinese	
<i>3. Chinese Literature or Linguistics (2 courses)</i>		
E ASIAN 351 & E ASIAN 352	Survey of Chinese Literature and Survey of Chinese Literature	

or

E ASIAN 431 & E ASIAN 432	Introduction to Chinese Linguistics and Introduction to Chinese Linguistics
<i>4. Additional credits in Chinese Studies, at least 5 credits:</i>	
E ASIAN 333	Chinese Conversation
E ASIAN/RELIG ST 350	Introduction to Taoism
E ASIAN 352	Survey of Chinese Literature
E ASIAN 356	Chinese Painting
E ASIAN/RELIG ST 363	Introduction to Confucianism
E ASIAN 371	Topics in Chinese Literature
E ASIAN 372	Topics in Chinese: Study Abroad
E ASIAN 379	Business Chinese
E ASIAN 401	Seventh Semester Chinese
E ASIAN 402	Eighth Semester Chinese
E ASIAN 432	Introduction to Chinese Linguistics
E ASIAN/LCA/RELIG ST 466	Buddhist Thought
E ASIAN 501	Fifth-year Chinese
E ASIAN 520	Popular Culture and Film in Twentieth-Century China
E ASIAN 631	History of the Chinese Language
E ASIAN 632	History of the Chinese Language
E ASIAN 651	History of Chinese Literature
E ASIAN 652	History of Chinese Literature
E ASIAN 661	History of Chinese Thought, Part 1
E ASIAN 662	History of Chinese Thought, Part 2
E ASIAN 671	Literary Studies in Chinese Drama
E ASIAN 672	Literary Studies in Chinese Fiction
E ASIAN 681	Senior Honors Thesis
E ASIAN 682	Senior Honors Thesis
E ASIAN 691	Senior Thesis
E ASIAN 692	Senior Thesis
E ASIAN 699	Directed Study
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present
ART HIST 371	Chinese Painting
HISTORY/ E A STDS 103	Introduction to East Asian History: China
HISTORY/ ASIAN AM/ E A STDS 276	Chinese Migrations since 1500
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919
HISTORY/ E A STDS 341	History of Modern China, 1800-1949
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present

HISTORY/  
E A STDS 363 China and World War II in Asia

ART HIST 308 Later Chinese Art: From the Tenth  
Century to the Present 3

HISTORY/  
E A STDS 341 History of Modern China, 1800-1949 3-4

## DISTINCTION IN THE MAJOR

Students majoring in Chinese who are not enrolled in the honors program may earn distinction in the major by completing:

1. the L&S general degree requirements, and
2. the junior–senior honors curriculum.

Fifteen honors credits are required in courses at the 300 level or higher, including a Senior Honors Thesis of 6 credits, E ASIAN 681 Senior Honors Thesis–E ASIAN 682 Senior Honors Thesis.

## RESIDENCE AND QUALITY OF WORK

15 credits that count toward the major, taken on campus

2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>

2.000 GPA in all credits in the major

### <sup>1</sup> Upper level courses in the major

Code	Title	Credits
E ASIAN 301	Fifth Semester Chinese	4
E ASIAN 302	Sixth Semester Chinese	4
E ASIAN 321	First Year Classical Chinese	4
E ASIAN 322	First Year Classical Chinese	4
E ASIAN 333	Chinese Conversation	3
E ASIAN/ RELIG ST 350	Introduction to Taoism	3-4
E ASIAN 351	Survey of Chinese Literature	3
E ASIAN 352	Survey of Chinese Literature	3
E ASIAN 356	Chinese Painting	3-4
E ASIAN 353	Survey of Japanese Literature	3
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 379	Business Chinese	3
E ASIAN 401	Seventh Semester Chinese	3
E ASIAN 402	Eighth Semester Chinese	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN/LCA/ RELIG ST 466	Buddhist Thought	3
E ASIAN 501	Fifth-year Chinese	3
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
E ASIAN 651	History of Chinese Literature	3
E ASIAN 652	History of Chinese Literature	3
E ASIAN 661	History of Chinese Thought, Part 1	3
E ASIAN 662	History of Chinese Thought, Part 2	3
E ASIAN 671	Literary Studies in Chinese Drama	3
E ASIAN 672	Literary Studies in Chinese Fiction	3
E ASIAN 681	Senior Honors Thesis	3
E ASIAN 682	Senior Honors Thesis	3
E ASIAN 691	Senior Thesis	3
E ASIAN 692	Senior Thesis	3
E ASIAN 699	Directed Study	2-3

## HONORS IN THE MAJOR

Students may declare Honors in the Chinese Major in consultation with the Chinese undergraduate advisor.

### HONORS IN THE CHINESE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Chinese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 for all E ASIAN courses, and all courses accepted in the major
- Complete the following coursework:
  - E ASIAN 699 Directed Study or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before E ASIAN 681 Senior Honors Thesis
  - A two-semester Senior Honors Thesis in E ASIAN 681 Senior Honors Thesis and E ASIAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.

4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

#### Rachel Weiss

1244 Van Hise Hall  
608-890-0138

rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUserToo.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages & Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

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#### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205  
careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>).

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#### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences.

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry,

Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

### EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

Junko Mori (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Professor). Area: Japanese Linguistics, Applied Linguistics, Sociolinguistics

Takako Nakakubo (<http://alc.wisc.edu/about/faculty/takako-nakakubo>) (Faculty Associate). Area: Second Language Acquisition of Japanese, Japanese Pedagogy

William Nienhauser (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Professor). Area: Early Traditional Chinese Fiction and History; early poetry (Du Fu and Tao Qian)

Steve Ridgely (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Associate Professor). Area: Modern Japanese Literature, Pop culture, TransAsian studies

Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

### SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion

in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

## SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

## LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

## STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator ([alc@lets.wisc.edu](mailto:alc@lets.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## CHINESE, B.S.

The Chinese program offers students a range of courses and activities which impart an understanding of the culture and civilization of China. With the completion of three basic years of the language, students will be prepared to handle various types of colloquial Chinese. Most majors pursue advanced studies in Chinese linguistics or literature, while others combine an interest in China with a degree in business, education, engineering or journalism.

For more information about the Department of Asian Languages and Cultures visit the department overview (p. 381).

## STUDY ABROAD IN CHINA

Students may receive residence credit for study abroad through a variety of different programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu>) for details.

Students may also receive credit, or gain experience, through various internship opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu>) for details.

## STARTING COURSEWORK TOWARDS THE MAJOR

Before declaring the major, students are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have Chinese credits from high school or summer sessions may enter advanced courses on the basis of placement tests.

The following courses may be taken with no previous knowledge of Chinese or Japanese:

Code	Title	Credits
E ASIAN 101	First Semester Chinese	6
E ASIAN 103	First Semester Japanese	6
E ASIAN 121	Elementary Chinese	3
E ASIAN 123	Elementary Japanese	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
E ASIAN 341 & E ASIAN 342	Classical Chinese for Non-Majors and Classical Chinese for Non-Majors	8
E ASIAN/RELIG ST 350	Introduction to Taoism	3-4
E ASIAN/RELIG ST 363	Introduction to Confucianism	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 434	Introduction to Japanese Linguistics	3
LITTRANS 261 & LITTRANS 262	Survey of Chinese Literature in Translation and Survey of Chinese Literature in Translation	6
LITTRANS 263 & LITTRANS 264	Survey of Japanese Literature in Translation and Survey of Japanese Literature in Translation	6
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## HOW TO GET IN

## ENROLLMENT INFORMATION

The department requires that students who are new to the program take a placement test before enrolling in a language course beyond the first-semester level. For information about the placement test and test dates, please visit the department website (<http://alc.wisc.edu/languages/placement-tests>). To register for a placement test, please contact Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu)).

## DECLARATION

If you would like to declare the major, please meet with the undergraduate advisor (rweiss@wisc.edu) to review the requirements, discuss courses, and to submit the declaration request.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>First &amp; Second Year Language</b>		
<i>First Year Chinese:</i>		
E ASIAN 101 & E ASIAN 102	First Semester Chinese and Second Semester Chinese	
or		
E ASIAN 121 & E ASIAN 122 & E ASIAN 102	Elementary Chinese and Elementary Chinese and Second Semester Chinese	
<i>Second Year Chinese</i>		
E ASIAN 201 & E ASIAN 202	Third Semester Chinese and Fourth Semester Chinese	
<b>Advanced Studies, 27 credits:</b>		
<i>1. Third Year Chinese (2 courses):</i>		
E ASIAN 301	Fifth Semester Chinese	
E ASIAN 302	Sixth Semester Chinese	
<i>2. Classical Chinese Courses (2 courses)</i>		
E ASIAN 321	First Year Classical Chinese	
E ASIAN 322	First Year Classical Chinese	
<i>3. Chinese Literature or Linguistics (2 courses)</i>		
E ASIAN 351 & E ASIAN 352	Survey of Chinese Literature and Survey of Chinese Literature	
or		
E ASIAN 431 & E ASIAN 432	Introduction to Chinese Linguistics and Introduction to Chinese Linguistics	
<i>4. Additional credits in Chinese Studies, at least 5 credits:</i>		

E ASIAN 333	Chinese Conversation
E ASIAN/ RELIG ST 350	Introduction to Taoism
E ASIAN 352	Survey of Chinese Literature
E ASIAN 356	Chinese Painting
E ASIAN/ RELIG ST 363	Introduction to Confucianism
E ASIAN 371	Topics in Chinese Literature
E ASIAN 372	Topics in Chinese: Study Abroad
E ASIAN 379	Business Chinese
E ASIAN 401	Seventh Semester Chinese
E ASIAN 402	Eighth Semester Chinese
E ASIAN 432	Introduction to Chinese Linguistics
E ASIAN/LCA/ RELIG ST 466	Buddhist Thought
E ASIAN 501	Fifth-year Chinese
E ASIAN 520	Popular Culture and Film in Twentieth-Century China
E ASIAN 631	History of the Chinese Language
E ASIAN 632	History of the Chinese Language
E ASIAN 651	History of Chinese Literature
E ASIAN 652	History of Chinese Literature
E ASIAN 661	History of Chinese Thought, Part 1
E ASIAN 662	History of Chinese Thought, Part 2
E ASIAN 671	Literary Studies in Chinese Drama
E ASIAN 672	Literary Studies in Chinese Fiction
E ASIAN 681	Senior Honors Thesis
E ASIAN 682	Senior Honors Thesis
E ASIAN 691	Senior Thesis
E ASIAN 692	Senior Thesis
E ASIAN 699	Directed Study
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present
ART HIST 371	Chinese Painting
HISTORY/ E A STDS 103	Introduction to East Asian History: China
HISTORY/ ASIAN AM/ E A STDS 276	Chinese Migrations since 1500
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919
HISTORY/ E A STDS 341	History of Modern China, 1800-1949
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present
HISTORY/ E A STDS 363	China and World War II in Asia

## DISTINCTION IN THE MAJOR

Students majoring in Chinese who are not enrolled in the honors program may earn distinction in the major by completing:

1. the L&S general degree requirements, and
2. the junior–senior honors curriculum.

Fifteen honors credits are required in courses at the 300 level or higher, including a Senior Honors Thesis of 6 credits, E ASIAN 681 Senior Honors Thesis–E ASIAN 682 Senior Honors Thesis.

## RESIDENCE AND QUALITY OF WORK

15 credits that count toward the major, taken on campus

2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>

2.000 GPA in all credits in the major

### <sup>1</sup> Upper level courses in the major

Code	Title	Credits
E ASIAN 301	Fifth Semester Chinese	4
E ASIAN 302	Sixth Semester Chinese	4
E ASIAN 321	First Year Classical Chinese	4
E ASIAN 322	First Year Classical Chinese	4
E ASIAN 333	Chinese Conversation	3
E ASIAN/ RELIG ST 350	Introduction to Taoism	3-4
E ASIAN 351	Survey of Chinese Literature	3
E ASIAN 352	Survey of Chinese Literature	3
E ASIAN 356	Chinese Painting	3-4
E ASIAN 353	Survey of Japanese Literature	3
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 379	Business Chinese	3
E ASIAN 401	Seventh Semester Chinese	3
E ASIAN 402	Eighth Semester Chinese	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN/LCA/ RELIG ST 466	Buddhist Thought	3
E ASIAN 501	Fifth-year Chinese	3
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
E ASIAN 651	History of Chinese Literature	3
E ASIAN 652	History of Chinese Literature	3
E ASIAN 661	History of Chinese Thought, Part 1	3
E ASIAN 662	History of Chinese Thought, Part 2	3
E ASIAN 671	Literary Studies in Chinese Drama	3
E ASIAN 672	Literary Studies in Chinese Fiction	3
E ASIAN 681	Senior Honors Thesis	3
E ASIAN 682	Senior Honors Thesis	3
E ASIAN 691	Senior Thesis	3
E ASIAN 692	Senior Thesis	3
E ASIAN 699	Directed Study	2-3
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	3

HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
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## HONORS IN THE MAJOR

Students may declare Honors in the Chinese Major in consultation with the Chinese undergraduate advisor.

### HONORS IN THE CHINESE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Chinese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 for all E ASIAN courses, and all courses accepted in the major
- Complete the following coursework:
  - E ASIAN 699 Directed Study or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before E ASIAN 681 Senior Honors Thesis
  - A two-semester Senior Honors Thesis in E ASIAN 681 Senior Honors Thesis and E ASIAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
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1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
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7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
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9. Produce effective academic writing in English.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

#### Rachel Weiss

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608-890-0138  
rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerTooa.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages & Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

#### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205  
careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>).

#### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences.

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.



## EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

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Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

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Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

## SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

## SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

## LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

## STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator ([alc@lets.wisc.edu](mailto:alc@lets.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## JAPANESE PROFESSIONAL COMMUNICATION, CERTIFICATE

The certificate in Japanese professional communication provides students with the opportunity to develop proficiency in Japanese while pursuing majors in other subjects across the university. It emphasizes the development of communication skills that are applicable to various professional contexts that students may encounter in their future careers.

The certificate is open to all undergraduate students (except for those majoring in Japanese). It is available to Special students only in circumstances where they have completed more than half of the 12-credit requirements discussed below as UW–Madison undergraduates in the semesters preceding their Special student enrollment.

## HOW TO GET IN

### DECLARING THE CERTIFICATE

To declare the certificate in Japanese professional communication, students should meet with the undergraduate advisor, [rweiss@wisc.edu](mailto:rweiss@wisc.edu), to review the requirements, discuss courses, and to submit the declaration request.

## REQUIREMENTS

### PREREQUISITES

The prerequisites for language courses required for the proposed certificates are four semesters of Japanese language courses:

Code	Title	Credits
E ASIAN 103	First Semester Japanese	6
E ASIAN 104	Second Semester Japanese	6
E ASIAN 203	Third Semester Japanese	6
E ASIAN 204	Fourth Semester Japanese	6

Students may test out of these prerequisites if they have prior experience in Japanese.

### PLACEMENT TESTS

The department requires that students who are new to our program take a placement test before enrolling in a language course beyond the first semester level. More information here. (<http://alc.wisc.edu/undergraduate-majors/japanese/placement>)

### REQUIREMENTS

The certificate requires 12 credits of course work beyond the prerequisites. The 12-credit requirement consists of the following components:

Code	Title	Credits
<i>Foundation in Professional Communication</i>		3
E ASIAN/ E P D 377	Business Japanese Communication	
<i>Select six credits of the following elective language courses:</i>		6
E ASIAN 303	Fifth Semester Japanese	
E ASIAN 304	Sixth Semester Japanese	
E ASIAN 335	Intermediate Japanese Conversation	
E ASIAN 368	Topics in Japanese Professional Communication	
E ASIAN/ E P D 374	Intermediate Technical Japanese I (through summer 2016)	
E ASIAN/ E P D 375	Intermediate Technical Japanese II	
E ASIAN 403	Seventh Semester Japanese	
E ASIAN 404	Eighth Semester Japanese	
<i>Select three credits of the following elective Japanese literature or humanities courses:</i>		3
E ASIAN 253	Introduction to Japanese Culture and Civilization	
E ASIAN 353	Survey of Japanese Literature	
E ASIAN 354	Survey of Japanese Literature	
E ASIAN 358	Language in Japanese Society	
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	
E ASIAN 367	Japanese Poetic Tradition	
E ASIAN 376	Manga.	
E ASIAN 373	Topics in Japanese: Study Abroad	

E ASIAN 378	Anime
E ASIAN 433	Topics in East Asian Visual Cultures
E ASIAN 434	Introduction to Japanese Linguistics
LITTRANS 373	Topics in Japanese Literature
Total Credits	12

### RESIDENCE AND QUALITY OF WORK

6 credits counting toward the certificate, taken in residence

A cumulative 2.000 GPA for courses counting toward the certificate

### LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

### ADVISING AND CAREERS

#### ADVISING

##### Undergraduate Advisor

##### Rachel Weiss

1244 Van Hise Hall

608-890-0138

[rweiss@wisc.edu](mailto:rweiss@wisc.edu)

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerTooa.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages & Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

#### CAREERS

L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205

careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. See the L&S Career Initiative website (<http://www.ls.wisc.edu/careerinitiative.html>) to view progress, and hear from notable L&S Alumni via the vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>).

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### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

#### EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

Junko Mori (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Professor). Area: Japanese Linguistics, Applied Linguistics, Sociolinguistics

Takako Nakakubo (<http://alc.wisc.edu/about/faculty/takako-nakakubo>) (Faculty Associate). Area: Second Language Acquisition of Japanese, Japanese Pedagogy

William Nienhauser (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Professor). Area: Early Traditional Chinese Fiction and History; early poetry (Du Fu and Tao Qian)

Steve Ridgely (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Associate Professor). Area: Modern Japanese Literature, Pop culture, TransAsian studies

Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

#### SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

#### SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

### LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

### UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

### STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator (alc@letsoci.wisc.edu)  
1212 Van Hise Hall  
608-262-2291

## JAPANESE, B.A.

The Japanese program offers students a range of courses and activities which impart an understanding of the culture and civilization of Japan. With the completion of the four basic years of the language, students will be prepared to handle various types of colloquial Japanese. Most of our majors pursue advanced studies in Japanese linguistics or literature, while others combine an interest in Japan with a degree in business, engineering, history, or international studies.

Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have Japanese credits from high school or summer sessions may enter advanced courses on the basis of placement tests (<http://alc.wisc.edu/undergraduate-majors/japanese/placement>).

For more information about the Department of Asian Languages and Cultures visit the department overview (p. 381).

## STUDY ABROAD IN JAPAN

Students may receive residence credit for **study abroad** through a variety of different programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu>) for details.

Students may also receive credit, or gain experience, through various **internship** opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu>) for details.

## HOW TO GET IN

### PLACEMENT TESTS

The department requires that students who are new to our program take a placement test before enrolling in a language course beyond the first semester level. More information here. (<http://alc.wisc.edu/undergraduate-majors/japanese/placement>)

### DECLARING THE MAJOR

Students may declare the major at any time during their undergraduate career and their study of Japanese. You are urged to meet with the undergraduate advisor (rweiss@wisc.edu) in advance of declaring the major to discuss the requirements

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>First and Second Year Language</b>		
First Year Japanese, select one of the following options:		
E ASIAN 103 & E ASIAN 104	First Semester Japanese and Second Semester Japanese (or equivalent)	
E ASIAN 123 & E ASIAN 124 & E ASIAN 104	Elementary Japanese and Elementary Japanese and Second Semester Japanese	
Second Year Japanese		
E ASIAN 203 & E ASIAN 204	Third Semester Japanese and Fourth Semester Japanese (or equivalent)	
<b>28 credits of Advanced Studies</b>		
Third Year Japanese		
E ASIAN 303 & E ASIAN 304	Fifth Semester Japanese and Sixth Semester Japanese	8
Fourth Year Japanese		
E ASIAN 403 & E ASIAN 404	Seventh Semester Japanese and Eighth Semester Japanese	6
Pre-Modern Japanese Literature Survey		
E ASIAN 353	Survey of Japanese Literature (or equivalent)	3
Modern Japanese Literature Survey		
E ASIAN 354	Survey of Japanese Literature	3
Japanese History		
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
or HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	
Select 5 credits from the following:		5
E ASIAN 323	First Year Classical Japanese	
E ASIAN 335	Intermediate Japanese Conversation	
E ASIAN 358	Language in Japanese Society	

E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	
E ASIAN 367	Japanese Poetic Tradition	
E ASIAN 376	Manga.	
E ASIAN/ E P D 377	Business Japanese Communication	
E ASIAN 378	Anime	
E ASIAN 434	Introduction to Japanese Linguistics	
E ASIAN 563	Readings in Modern Japanese Literature	
E ASIAN 564	Readings in Modern Japanese Literature	
E ASIAN 573	Readings in Classical Japanese Literature	
E ASIAN 574	Readings in Classical Japanese Literature	
E ASIAN 681	Senior Honors Thesis	
E ASIAN 682	Senior Honors Thesis	
E ASIAN 691	Senior Thesis	
E ASIAN 692	Senior Thesis	
E ASIAN 699	Directed Study	
LITTRANS 368	Modern Japanese Fiction	
LITTRANS 372	Classical Japanese Prose in Translation	
LITTRANS 373	Topics in Japanese Literature	
Total Credits		28

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major and SUBJECT courses

2.000 GPA in 15 upper-level major credits in residence<sup>1</sup>

15 credits, in the major, taken on campus

<sup>1</sup> Courses in Japanese that count toward upper-level major requirement are:

Code	Title	Credits
E ASIAN 303	Fifth Semester Japanese	4
E ASIAN 304	Sixth Semester Japanese	4
E ASIAN 323	First Year Classical Japanese	3
E ASIAN 335	Intermediate Japanese Conversation	3
E ASIAN 353	Survey of Japanese Literature	3
E ASIAN 354	Survey of Japanese Literature	3
E ASIAN 358	Language in Japanese Society	3
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN/E P D 377	Business Japanese Communication	3
E ASIAN 378	Anime	3
E ASIAN 403	Seventh Semester Japanese	3
E ASIAN 404	Eighth Semester Japanese	3
E ASIAN 434	Introduction to Japanese Linguistics	3

E ASIAN 563	Readings in Modern Japanese Literature	3
E ASIAN 564	Readings in Modern Japanese Literature	3
E ASIAN 573	Readings in Classical Japanese Literature	3
E ASIAN 574	Readings in Classical Japanese Literature	3
E ASIAN 681	Senior Honors Thesis	3
E ASIAN 682	Senior Honors Thesis	3
E ASIAN 691	Senior Thesis	3
E ASIAN 692	Senior Thesis	3
E ASIAN 699	Directed Study	2-3
HISTORY/ E A STDS 454	Samurai: History and Image	3-4
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## DISTINCTION IN THE MAJOR

Students majoring in Japanese who are not enrolled in the honors program may earn distinction in the major by completing:

1. the L&S general degree requirements, and
2. the junior–senior honors curriculum.

Fifteen honors credits are required in courses at the 300 level or higher, including a Senior Honors Thesis of 6 credits, E ASIAN 681 Senior Honors Thesis–E ASIAN 682 Senior Honors Thesis.

## HONORS IN THE MAJOR

Students may declare Honors in the Japanese Major in consultation with the Japanese undergraduate advisor.

## HONORS IN THE JAPANESE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Japanese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all E ASIAN courses, and all courses accepted in the major
- Complete the following courses:
  - Either E ASIAN 699 Directed Study or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before taking the Senior Honors Thesis
  - Complete a two-semester Senior Honors Thesis in E ASIAN 681 Senior Honors Thesis and E ASIAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and video materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

Rachel Weiss

1244 Van Hise Hall

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rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerToo.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages & Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

#### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

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Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>)

#### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences

Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW-Madison or elsewhere are available which speed the student's progress. Those who have Chinese or Japanese credits from high school or summer sessions may enter advanced courses on the basis of placement tests.

### THE FOLLOWING COURSES MAY BE TAKEN WITH NO PREVIOUS KNOWLEDGE OF CHINESE OR JAPANESE:

Code	Title	Credits
E ASIAN 101	First Semester Chinese	6
E ASIAN 103	First Semester Japanese	6
E ASIAN 121	Elementary Chinese	3
E ASIAN 123	Elementary Japanese	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
E ASIAN 341 & E ASIAN 342	Classical Chinese for Non-Majors and Classical Chinese for Non-Majors	8
E ASIAN/RELIG ST 350	Introduction to Taoism	3-4
E ASIAN/RELIG ST 363	Introduction to Confucianism	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 434	Introduction to Japanese Linguistics	3

LITTRANS 261 & LITTRANS 262	Survey of Chinese Literature in Translation and Survey of Chinese Literature in Translation	6
LITTRANS 263 & LITTRANS 264	Survey of Japanese Literature in Translation and Survey of Japanese Literature in Translation	6
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

### EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

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Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

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## SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

## SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

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## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
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## STAFF

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Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have Japanese credits from high school or summer sessions may enter advanced courses on the basis of placement tests (<http://alc.wisc.edu/undergraduate-majors/japanese/placement>).

For more information about the Department of Asian Languages and Cultures visit the department overview (p. 381).

## STUDY ABROAD IN JAPAN

Students may receive residence credit for **study abroad** through a variety of different programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu>) for details.

Students may also receive credit, or gain experience, through various **internship** opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu>) for details.

## HOW TO GET IN

## PLACEMENT TESTS

The department requires that students who are new to our program take a placement test before enrolling in a language course beyond the first semester level. More information here. (<http://alc.wisc.edu/undergraduate-majors/japanese/placement>)

## DECLARING THE MAJOR

Students may declare the major at any time during their undergraduate career and their study of Japanese. You are urged to meet with the undergraduate advisor ([rweiss@wisc.edu](mailto:rweiss@wisc.edu)) in advance of declaring the major to discuss the requirements

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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



needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>First and Second Year Language</b>		
First Year Japanese, select one of the following options:		
E ASIAN 103 & E ASIAN 104	First Semester Japanese and Second Semester Japanese (or equivalent)	
E ASIAN 123 & E ASIAN 124 & E ASIAN 104	Elementary Japanese and Elementary Japanese and Second Semester Japanese	
Second Year Japanese		
E ASIAN 203 & E ASIAN 204	Third Semester Japanese and Fourth Semester Japanese (or equivalent)	
<b>28 credits of Advanced Studies</b>		
Third Year Japanese		
E ASIAN 303 & E ASIAN 304	Fifth Semester Japanese and Sixth Semester Japanese	8
Fourth Year Japanese		
E ASIAN 403 & E ASIAN 404	Seventh Semester Japanese and Eighth Semester Japanese	6
Pre-Modern Japanese Literature Survey		
E ASIAN 353	Survey of Japanese Literature (or equivalent)	3
Modern Japanese Literature Survey		
E ASIAN 354	Survey of Japanese Literature	3
Japanese History		
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
or HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	
Select 5 credits from the following:		5
E ASIAN 323	First Year Classical Japanese	
E ASIAN 335	Intermediate Japanese Conversation	
E ASIAN 358	Language in Japanese Society	
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	
E ASIAN 367	Japanese Poetic Tradition	
E ASIAN 376	Manga.	
E ASIAN/ E P D 377	Business Japanese Communication	
E ASIAN 378	Anime	
E ASIAN 434	Introduction to Japanese Linguistics	
E ASIAN 563	Readings in Modern Japanese Literature	

E ASIAN 564	Readings in Modern Japanese Literature	
E ASIAN 573	Readings in Classical Japanese Literature	
E ASIAN 574	Readings in Classical Japanese Literature	
E ASIAN 681	Senior Honors Thesis	
E ASIAN 682	Senior Honors Thesis	
E ASIAN 691	Senior Thesis	
E ASIAN 692	Senior Thesis	
E ASIAN 699	Directed Study	
LITTRANS 368	Modern Japanese Fiction	
LITTRANS 372	Classical Japanese Prose in Translation	
LITTRANS 373	Topics in Japanese Literature	
Total Credits		28

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major and SUBJECT courses

2.000 GPA in 15 upper-level major credits in residence<sup>1</sup>

15 credits, in the major, taken on campus

<sup>1</sup> Courses in Japanese that count toward upper-level major requirement are:

Code	Title	Credits
E ASIAN 303	Fifth Semester Japanese	4
E ASIAN 304	Sixth Semester Japanese	4
E ASIAN 323	First Year Classical Japanese	3
E ASIAN 335	Intermediate Japanese Conversation	3
E ASIAN 353	Survey of Japanese Literature	3
E ASIAN 354	Survey of Japanese Literature	3
E ASIAN 358	Language in Japanese Society	3
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN/E P D 377	Business Japanese Communication	3
E ASIAN 378	Anime	3
E ASIAN 403	Seventh Semester Japanese	3
E ASIAN 404	Eighth Semester Japanese	3
E ASIAN 434	Introduction to Japanese Linguistics	3
E ASIAN 563	Readings in Modern Japanese Literature	3
E ASIAN 564	Readings in Modern Japanese Literature	3
E ASIAN 573	Readings in Classical Japanese Literature	3
E ASIAN 574	Readings in Classical Japanese Literature	3
E ASIAN 681	Senior Honors Thesis	3
E ASIAN 682	Senior Honors Thesis	3
E ASIAN 691	Senior Thesis	3
E ASIAN 692	Senior Thesis	3

E ASIAN 699	Directed Study	2-3
HISTORY/ E A STDS 454	Samurai: History and Image	3-4
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## DISTINCTION IN THE MAJOR

Students majoring in Japanese who are not enrolled in the honors program may earn distinction in the major by completing:

1. the L&S general degree requirements, and
2. the junior–senior honors curriculum.

Fifteen honors credits are required in courses at the 300 level or higher, including a Senior Honors Thesis of 6 credits, E ASIAN 681 Senior Honors Thesis–E ASIAN 682 Senior Honors Thesis.

## HONORS IN THE MAJOR

Students may declare Honors in the Japanese Major in consultation with the Japanese undergraduate advisor.

## HONORS IN THE JAPANESE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Japanese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all E ASIAN courses, and all courses accepted in the major
- Complete the following courses:
  - Either E ASIAN 699 Directed Study or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before taking the Senior Honors Thesis
  - Complete a two-semester Senior Honors Thesis in E ASIAN 681 Senior Honors Thesis and E ASIAN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and video materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

#### Rachel Weiss

1244 Van Hise Hall  
608-890-0138  
rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerTooa.html>)

Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages & Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

#### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205  
careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>)

### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences

Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW-Madison or elsewhere are available which speed the student's progress. Those who have Chinese or Japanese credits from high school or summer sessions may enter advanced courses on the basis of placement tests.

### THE FOLLOWING COURSES MAY BE TAKEN WITH NO PREVIOUS KNOWLEDGE OF CHINESE OR JAPANESE:

Code	Title	Credits
E ASIAN 101	First Semester Chinese	6
E ASIAN 103	First Semester Japanese	6
E ASIAN 121	Elementary Chinese	3
E ASIAN 123	Elementary Japanese	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
E ASIAN 341 & E ASIAN 342	Classical Chinese for Non-Majors and Classical Chinese for Non-Majors	8
E ASIAN/RELIG ST 350	Introduction to Taoism	3-4
E ASIAN/RELIG ST 363	Introduction to Confucianism	3
E ASIAN 367	Japanese Poetic Tradition	3-4
E ASIAN 371	Topics in Chinese Literature	2-3
E ASIAN 434	Introduction to Japanese Linguistics	3
LITTRANS 261 & LITTRANS 262	Survey of Chinese Literature in Translation and Survey of Chinese Literature in Translation	6
LITTRANS 263 & LITTRANS 264	Survey of Japanese Literature in Translation and Survey of Japanese Literature in Translation	6
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etchevery, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

### EAST ASIA

Charo D'Etchevery (<http://alc.wisc.edu/about/faculty/charo-detchevery>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

Junko Mori (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Professor). Area: Japanese Linguistics, Applied Linguistics, Sociolinguistics

Takako Nakakubo (<http://alc.wisc.edu/about/faculty/takako-nakakubo>) (Faculty Associate). Area: Second Language Acquisition of Japanese, Japanese Pedagogy

William Nienhauser (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Professor). Area: Early Traditional Chinese Fiction and History; early poetry (Du Fu and Tao Qian)

Steve Ridgely (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Associate Professor). Area: Modern Japanese Literature, Pop culture, TransAsian studies

Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

### SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

### SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

### LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

### UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

### STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator ([alc@letscli.wisc.edu](mailto:alc@letscli.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## LANGUAGES AND CULTURES OF ASIA, B.A.

**Effective fall 2014, admission to the Languages and Cultures of Asia (LCA) major has been suspended.**

A new undergraduate program (<http://alc.wisc.edu/undergraduate-majors/asian-languages-and-cultures>) in Asian Languages and Cultures is under development. The plan includes multiple options, such as Southeast Asian studies, South Asian studies, and East Asian studies as well as a non-region-specific option. ALC aims to launch these new programs in fall 2018.

The Department of Asian Languages and Cultures (ALC) at UW–Madison was established on July 1, 2016 merging the preexisting departments of East Asian Languages and Literature (EALL) and Languages and Cultures of Asia (LCA).

ALC is student-centered and driven by research that is integrated into the classroom. With thematic foci in Asian languages, linguistics and literature, Asian cultural studies, religions of Asia, and critical issues in contemporary Asia, we aim to teach students how to recognize and critically analyze the realities of past and present "Asia" as a region that is crucial to the global flows of people, materials, and ideas through its own rich complexity with deep interconnection across multiple domains. At the same time, within this context of connections across Asia, we also seek to promote deep learning and knowledge of particular languages, time periods, and places, since in order to understand transasian regional and global networks, our students also need to acquire specific cultural and linguistic competencies.

We encourage students to study Asia in a regional and comparative frame while cultivating scholarly capacities in particular aspects of Asian culture. To that end, we offer multiple degree options at the BA levels, reflecting departmental research strengths that allow students to approach the study of Asian cultures, languages, media, religions, and critical social issues from a variety of perspectives. We seek to enhance both teaching and research through collaborations within the department and beyond, with particular emphasis on the development of robust connections with scholars at our peer institutions throughout Asia.

## HOW TO GET IN

A new undergraduate program in Asian Languages and Cultures is under development. The plan includes multiple options, such as Southeast Asian studies, South Asian studies, and East Asian studies as well as a non-region-specific option. ALC aims to launch these new programs in fall 2018.

Contact Rachel Weiss (rweiss@wisc.edu) for more information.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPAs	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

**Note: Effective fall 2014, admission to the languages and cultures of Asia (LCA) major has been suspended. Students should communicate with the undergraduate advisor for Asian languages and cultures for additional assistance.**

A new undergraduate program in Asian Languages and Cultures (ALC) is under development. The plan includes multiple options, such as Southeast Asian studies, South Asian studies, and East Asian studies, as well as a non-region-specific option. ALC aims to launch these new programs in fall 2018.

Previously the B.A. in languages and cultures of Asia offered two major tracks:

- Asian languages
- Asian humanities

Students must fulfill the requirements totaling 30 credits in consultation with the undergraduate advisor.

Code	Title	Credits
Select one of the following tracks:		30
Asian Languages Track		
Asian Humanities Track		
Total Credits		30

### ASIAN LANGUAGES TRACK

Code	Title	Credits
Select one of the following Introductory Courses:		
LCA 100	Introduction to Cultures of Asia	
LCA 101	Introduction to Literatures of Asia	
Select four courses in one LCA-Lang language <sup>1</sup>		
LCA 600	Capstone Seminar in Asian Humanities	3
Select electives in LCA and/or LCA-Lang courses numbered 300 or above to bring credits for the major to 30		
Total Credits		3

<sup>1</sup> All students with prior knowledge of the language are required to undertake an evaluation procedure to place them at the appropriate level. Prior knowledge cannot be used to fulfill this requirement.

### ASIAN HUMANITIES TRACK

Code	Title	Credits
Select one of the following Introductory Courses:		
LCA 100	Introduction to Cultures of Asia	
LCA 101	Introduction to Literatures of Asia	

Select one of the following options:

Option 1 - Select two courses from two Field Categories:

Religion	
Literature	
Culture	
Option 2 - Select two courses from two Area Categories:	
Central and Southwest Asia	
South Asia	
Southeast Asia	

LCA 600	Capstone Seminar in Asian Humanities	3
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Select electives in LCA and/or LCA-Lang courses numbered 300 or above to bring credits for the major to 30

Total Credits	3
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## FIELD CATEGORIES

### Religion

Code	Title	Credits
LCA/E ASIAN/ RELIG ST 235	Genres of Asian Religious Writing	3
LCA/RELIG ST 274	Religion in South Asia	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA/RELIG ST 367	Jainism: Religion of Non-Violence	3
LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	4
LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
LCA/E ASIAN/ RELIG ST 466	Buddhist Thought	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA/RELIG ST 623	Yoga: Methods and Goals	3
LCA/RELIG ST 624	Meditation in Indian Buddhism and Hinduism	3
LCA/RELIG ST 626	Gods and Goddesses of South Asia	3
LCA/LEGAL ST/ RELIG ST 628	Hindu Law	3
LCA/RELIG ST 650	Proseminar in Buddhist Thought	2-3

### Literature

Code	Title	Credits
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 311	Modern Indian Literatures	3
LCA 314	Literatures of Central Asia	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3
LCA 373	Urdu Prose Fiction in India and Pakistan	3
LCA/FOLKLORE 374	Indian Folklore	3

LCA 401	Modern Indonesian Literature	3
LCA 403	Southeast Asian Literature	3
LCA 404	Southeast Asian Literature	3
LCA 579	Fiction and Ethnography in Turkey	3
LCA 610	Proseminar: Introduction to Turkic Linguistics	3
LCA 615	Writing Travels	3
LCA 666	Proseminar: Studies in Literatures of Asia	3
LCA 671	Structure of Thai	3

**Culture**

Code	Title	Credits
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 361	Survey of Indonesian Cultures	3
LCA/ART HIST 379	Cities of Asia	3
LCA/RELIG ST 402	Thought of Gandhi	3
LCA/ANTHRO/ LINGUIS 430	Language and Culture	3-4
LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA/ANTHRO 462	Anthropology of South Asia	3
LCA/RELIG ST/ SOC 614	Social Structures of Muslim Societies	3
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA/RELIG ST/ SOC 634	Social Structure of India	3
LCA 640	Proseminar in Central Asian History	3
LCA/POLI SCI 663	South Asia and the Global System: Economy, Security & Culture	3-4

**AREA CATEGORIES****Central and Southwest Asia**

Code	Title	Credits
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3

LCA 300	Topics in Languages and Cultures of Asia	3
LCA 314	Literatures of Central Asia	3
LCA/GEN&WS/ HISTORY 472	Women in Turkish Society	3
LCA 579	Fiction and Ethnography in Turkey	3
LCA 610	Proseminar: Introduction to Turkic Linguistics	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA 640	Proseminar in Central Asian History	3
LCA 666	Proseminar: Studies in Literatures of Asia	3

**South Asia**

Code	Title	Credits
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 311	Modern Indian Literatures	3
LCA 373	Urdu Prose Fiction in India and Pakistan	3
LCA/FOLKLORE 374	Indian Folklore	3
LCA/RELIG ST 402	Thought of Gandhi	3
LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
LCA/ART HIST 428	Visual Cultures of South Asia	3
LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/ANTHRO 462	Anthropology of South Asia	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA/RELIG ST 623	Yoga: Methods and Goals	3
LCA/RELIG ST 624	Meditation in Indian Buddhism and Hinduism	3
LCA/RELIG ST 626	Gods and Goddesses of South Asia	3
LCA/LEGAL ST/ RELIG ST 628	Hindu Law	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA/RELIG ST/ SOC 634	Social Structure of India	3
LCA/POLI SCI 663	South Asia and the Global System: Economy, Security & Culture	3-4
LCA 666	Proseminar: Studies in Literatures of Asia	3

**Southeast Asia**

Code	Title	Credits
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
LCA 300	Topics in Languages and Cultures of Asia	3

LCA 361	Survey of Indonesian Cultures	3
LCA 401	Modern Indonesian Literature	3
LCA 403	Southeast Asian Literature	3
LCA 404	Southeast Asian Literature	3
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA 441	Language and Society in Southeast Asia	3
LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA 666	Proseminar: Studies in Literatures of Asia	3
LCA 671	Structure of Thai	3

## DISTINCTION IN THE MAJOR

The department will recommend that Distinction in the Major be awarded to any student who completes the major requirements and earns a 3.500 GPA within the LCA major.

All students are required to fulfill the L&S requirement of at least **15 credits of upper-level work in the major** completed in residence. LCA courses 300–699 (with the exception of first- and second-semester language courses) count toward this requirement.

## HONORS IN THE MAJOR

Students may declare Honors in the Languages and Cultures of Asia Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE LANGUAGES AND CULTURES OF ASIA MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Languages and Cultures of Asia students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 for all LCA courses, and all courses accepted in the major
- Complete an additional 6 credits of intermediate- or advanced-level coursework beyond the major requirements in LCA, bringing the total credits to 36
- Complete LCA 600 Capstone Seminar in Asian Humanities before or concurrently with the first semester of LCA 681 Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in LCA 681 Senior Honors Thesis and LCA 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
- Spontaneously exchange ideas about various topics with relative ease.
- State and support one's own opinion while acknowledging others' viewpoints.
- Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
- Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
- Synthesize and critically evaluate source materials in both English and the target language.
- Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
- Demonstrate cultural awareness across historical epochs.
- Produce effective academic writing in English.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

Rachel Weiss

1244 Van Hise Hall

608-890-0138

rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerToo.html>)



Rachel is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options or advance through their four-year plans.

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### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205  
careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>).

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### Language & International Directions Advising

Michael Kruse, International Directions Advisor  
mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences.

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry, Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

### EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

Junko Mori (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Professor). Area: Japanese Linguistics, Applied Linguistics, Sociolinguistics

Takako Nakakubo (<http://alc.wisc.edu/about/faculty/takako-nakakubo>) (Faculty Associate). Area: Second Language Acquisition of Japanese, Japanese Pedagogy

William Nienhauser (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Professor). Area: Early Traditional Chinese Fiction and History; early poetry (Du Fu and Tao Qian)

Steve Ridgely (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Associate Professor). Area: Modern Japanese Literature, Pop culture, TransAsian studies

Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

### SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

### SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

## LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall

608-890-0138

## STAFF

Department Administrator:  
email Terry Nealon (tenealon@wisc.edu)  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator (alc@lets.wisc.edu)  
1212 Van Hise Hall  
608-262-2291

## LANGUAGES AND CULTURES OF ASIA, B.S.

**Note: Effective fall 2014, admission to the Languages and Cultures of Asia (LCA) major has been suspended.**

The department focuses on research and teaching in the Asian humanities, with particular emphasis on culture, literature, religion, and language. The mission is to engage in wide-ranging humanistic scholarship that transcends the boundaries of language, geographic region, nation, and religious identity and to impart the significance of a humanistic study of Asia to students, as well as to other members of the university and beyond. This mission promotes Asian humanities as something not merely to learn *about* but also, and more important, to learn *from*.

The department offers a wide range of courses covering Central and Southwest, South, and Southeast Asia. Languages currently offered during the academic year include Arabic, Filipino, Hindi, Hmong, Indonesian, Persian, Sanskrit, Thai, Tibetan, Turkish, Urdu, Uzbek, and Vietnamese. Languages currently offered during the summer session include Bengali, Gujarati, Hindi, Malayalam, Marathi, Nepali, Sanskrit, Tamil, Telugu, Tibetan, Urdu, Burmese, Filipino, Hmong, Indonesian, Javanese, Khmer, Lao, Thai, and Vietnamese.

## HOW TO GET IN

There are no prerequisites for declaring the major, but students must declare in time to take LCA 600 Capstone Seminar in Asian Humanities in the senior year.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
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Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

**Note: Effective fall 2014, admission to the languages and cultures of Asia (LCA) major has been suspended. Students should communicate with the undergraduate advisor for Asian languages and cultures for additional assistance.**

A new undergraduate program in Asian Languages and Cultures (ALC) is under development. The plan includes multiple options, such as Southeast Asian studies, South Asian studies, and East Asian studies, as well as a non-region-specific option. ALC aims to launch these new programs in fall 2018.

Previously the B.A. in languages and cultures of Asia offered two major tracks:

- Asian languages
- Asian humanities

Students must fulfill the requirements totaling 30 credits in consultation with the undergraduate advisor.

Code	Title	Credits
Select one of the following tracks:		30
Asian Languages Track		
Asian Humanities Track		
Total Credits		30

### ASIAN LANGUAGES TRACK

Code	Title	Credits
Select one of the following Introductory Courses:		
LCA 100	Introduction to Cultures of Asia	
LCA 101	Introduction to Literatures of Asia	
Select four courses in one LCA-Lang language <sup>1</sup>		
LCA 600	Capstone Seminar in Asian Humanities	3
Select electives in LCA and/or LCA-Lang courses numbered 300 or above to bring credits for the major to 30		
Total Credits		3

<sup>1</sup> All students with prior knowledge of the language are required to undertake an evaluation procedure to place them at the appropriate level. Prior knowledge cannot be used to fulfill this requirement.

### ASIAN HUMANITIES TRACK

Code	Title	Credits
Select one of the following Introductory Courses:		
LCA 100	Introduction to Cultures of Asia	
LCA 101	Introduction to Literatures of Asia	
Select one of the following options:		
Option 1 - Select two courses from two Field Categories:		
Religion		
Literature		

Culture		
Option 2 - Select two courses from two Area Categories:		
Central and Southwest Asia		
South Asia		
Southeast Asia		
LCA 600	Capstone Seminar in Asian Humanities	3
Select electives in LCA and/or LCA-Lang courses numbered 300 or above to bring credits for the major to 30		
Total Credits		3

## FIELD CATEGORIES

### Religion

Code	Title	Credits
LCA/E ASIAN/ RELIG ST 235	Genres of Asian Religious Writing	3
LCA/RELIG ST 274	Religion in South Asia	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA/RELIG ST 367	Jainism: Religion of Non-Violence	3
LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	4
LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
LCA/E ASIAN/ RELIG ST 466	Buddhist Thought	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA/RELIG ST 623	Yoga: Methods and Goals	3
LCA/RELIG ST 624	Meditation in Indian Buddhism and Hinduism	3
LCA/RELIG ST 626	Gods and Goddesses of South Asia	3
LCA/LEGAL ST/ RELIG ST 628	Hindu Law	3
LCA/RELIG ST 650	Proseminar in Buddhist Thought	2-3

### Literature

Code	Title	Credits
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 311	Modern Indian Literatures	3
LCA 314	Literatures of Central Asia	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3
LCA 373	Urdu Prose Fiction in India and Pakistan	3
LCA/FOLKLORE 374	Indian Folklore	3
LCA 401	Modern Indonesian Literature	3
LCA 403	Southeast Asian Literature	3
LCA 404	Southeast Asian Literature	3
LCA 579	Fiction and Ethnography in Turkey	3

LCA 610	Proseminar: Introduction to Turkic Linguistics	3
LCA 615	Writing Travels	3
LCA 666	Proseminar: Studies in Literatures of Asia	3
LCA 671	Structure of Thai	3

**Culture**

Code	Title	Credits
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 361	Survey of Indonesian Cultures	3
LCA/ART HIST 379	Cities of Asia	3
LCA/RELIG ST 402	Thought of Gandhi	3
LCA/ANTHRO/ LINGUIS 430	Language and Culture	3-4
LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA/ANTHRO 462	Anthropology of South Asia	3
LCA/RELIG ST/ SOC 614	Social Structures of Muslim Societies	3
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA/RELIG ST/ SOC 634	Social Structure of India	3
LCA 640	Proseminar in Central Asian History	3
LCA/POLI SCI 663	South Asia and the Global System: Economy, Security & Culture	3-4

**AREA CATEGORIES****Central and Southwest Asia**

Code	Title	Credits
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 314	Literatures of Central Asia	3

LCA/GEN&WS/ HISTORY 472	Women in Turkish Society	3
LCA 579	Fiction and Ethnography in Turkey	3
LCA 610	Proseminar: Introduction to Turkic Linguistics	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA 640	Proseminar in Central Asian History	3
LCA 666	Proseminar: Studies in Literatures of Asia	3

**South Asia**

Code	Title	Credits
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 311	Modern Indian Literatures	3
LCA 373	Urdu Prose Fiction in India and Pakistan	3
LCA/FOLKLORE 374	Indian Folklore	3
LCA/RELIG ST 402	Thought of Gandhi	3
LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
LCA/ART HIST 428	Visual Cultures of South Asia	3
LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/ANTHRO 462	Anthropology of South Asia	3
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA/RELIG ST 623	Yoga: Methods and Goals	3
LCA/RELIG ST 624	Meditation in Indian Buddhism and Hinduism	3
LCA/RELIG ST 626	Gods and Goddesses of South Asia	3
LCA/LEGAL ST/ RELIG ST 628	Hindu Law	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA/RELIG ST/ SOC 634	Social Structure of India	3
LCA/POLI SCI 663	South Asia and the Global System: Economy, Security & Culture	3-4
LCA 666	Proseminar: Studies in Literatures of Asia	3

**Southeast Asia**

Code	Title	Credits
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
LCA 300	Topics in Languages and Cultures of Asia	3
LCA 361	Survey of Indonesian Cultures	3
LCA 401	Modern Indonesian Literature	3
LCA 403	Southeast Asian Literature	3

LCA 404	Southeast Asian Literature	3
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA 441	Language and Society in Southeast Asia	3
LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA/RELIG ST 620	Proseminar: Studies in Religions of Asia	3
LCA 630	Proseminar: Studies in Cultures of Asia	3
LCA 666	Proseminar: Studies in Literatures of Asia	3
LCA 671	Structure of Thai	3

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## HONORS IN THE MAJOR

Students may declare Honors in the Languages and Cultures of Asia Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE LANGUAGES AND CULTURES OF ASIA MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Languages and Cultures of Asia students must satisfy both the requirements for the major (above) and the following additional requirements:

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- Earn a 3.500 for all LCA courses, and all courses accepted in the major
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## ADVISING AND CAREERS

### UNDERGRADUATE ADVISOR

#### Rachel Weiss

1244 Van Hise Hall

608-890-0138

rweiss@wisc.edu

Schedule an advising appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/fUerTooa.html>)

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### L&S Career Initiative & Career Services (<http://careers.ls.wisc.edu>)

1305 Linden Drive, Suite 205

careers@saa.ls.wisc.edu

The Career Initiative and Career Services have joined together to prepare undergraduates for satisfying and rewarding careers. Check out the L&S Career Initiative (<http://www.ls.wisc.edu/careerinitiative.html>) website to view progress and hear from notable L&S Alumni via the Vignettes page (<http://www.ls.wisc.edu/careerinitiative-vignettes.html>)

### Language & International Directions Advising

Michael Kruse, International Directions Advisor

mkruse@wisc.edu

International Directions Advisor Michael Kruse provides academic and career advising to undergraduate students who are interested in languages and international area studies. Michael is available to meet with students from across campus to help connect them with academic programs and campus resources that fit their interests, as well as to discuss professional opportunities that draw on their language-learning and international experiences

## PEOPLE

### FACULTY

Professors Bühnemann, Dunne, Huang, Huntington, Kern, McGloin, Mori (chair), Nienhauser, Zhang; Associate Professors Cerulli, D'Etcheverry,

Geyer, Lim, Meulenbeld, Ridgely; Assistant Professors Yang, Zhu (Diversity Liaison); Faculty Associate Barnard, Nakakubo.

## EAST ASIA

Charo D'Etcheverry (<http://alc.wisc.edu/about/faculty/charo-detcheverry>) (Associate Professor). Area: Classical Japanese Literature

Naomi Geyer (<http://alc.wisc.edu/about/faculty/naomi-geyer>) (Associate Professor). Area: Japanese Language

Nicole Huang (<http://alc.wisc.edu/about/faculty/nicole-huang>) (Professor). Area: Transcultural East Asia; 20th century Chinese and Taiwanese Literature

Rania Huntington (<http://alc.wisc.edu/about/faculty/rania-huntington>) (Professor). Area: Ming and Qing Narrative and Drama, Chinese Literature of the weird and supernatural

Adam L. Kern (<http://alc.wisc.edu/about/faculty/adam-l-kern>) (Professor). Area: Popular Literature, Culture, Poetry, Theater, and Visual Culture of early modern-modern Japan.

Byung-jin Lim (<http://alc.wisc.edu/about/faculty/byung-jin-lim>) (Associate Professor). Area: Korean Language and Linguistics, Second / Foreign Language Acquisition, Korean Language Textbook Development

Naomi McGloin (<http://alc.wisc.edu/about/faculty/naomi-mcgloin>) (Professor). Area: Japanese Language and Linguistics

Mark Meulenbeld (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Associate Professor). Area: Daoism, Chinese Religion and Literature

Junko Mori (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Professor). Area: Japanese Linguistics, Applied Linguistics, Sociolinguistics

Takako Nakakubo (<http://alc.wisc.edu/about/faculty/takako-nakakubo>) (Faculty Associate). Area: Second Language Acquisition of Japanese, Japanese Pedagogy

William Nienhauser (<http://alc.wisc.edu/about/faculty/william-nienhauser>) (Professor). Area: Early Traditional Chinese Fiction and History; early poetry (Du Fu and Tao Qian)

Steve Ridgely (<http://alc.wisc.edu/about/faculty/steve-ridgely>) (Associate Professor). Area: Modern Japanese Literature, Pop culture, TransAsian studies

Bei Yang (<http://alc.wisc.edu/about/faculty/bei-yang>) (Assistant Professor). Area: Second Language Acquisition, Chinese Languages and Linguistics

Hongming Zhang (<http://alc.wisc.edu/about/faculty/hongming-zhang>) (Professor). Area: Chinese Linguistics; History of Chinese Language; Teaching Chinese as a Second Language

Weihua Zhu (<http://alc.wisc.edu/about/faculty/weihua-zhu>) (Assistant Professor). Area: Chinese Language, Pedagogy and Second Language Acquisition

## SOUTH ASIA

Gudrun Bühnemann (<http://alc.wisc.edu/about/faculty/gudrun-b%C3%BChnemann>) (Professor). Area: Sanskrit Language and Literature; Buddhism in India and Nepal; Hinduism; Tantrism; Yoga Studies

Anthony Cerulli (<http://alc.wisc.edu/about/faculty/anthony-cerulli>) (Associate Professor). Area: Theory and Method in the Study of Religion

in South Asia; History of Medicine in India; Sanskrit Language and Literature; Kerala History and Culture; Malayalam Language.

John D. Dunne (<http://alc.wisc.edu/about/faculty/john-d-dunne>) (Professor). Area: Buddhist Philosophy and Contemplative Practice; Religious Studies; Cognitive Science of Religion

## SOUTHEAST ASIA

Erlin Barnard (<http://alc.wisc.edu/about/faculty/erlin-barnard>) (Faculty Associate) Area: Indonesian Language, Language Pedagogy; Materials Development; Second Language Acquisition

## LANGUAGE INSTRUCTORS

Language instructors (<http://alc.wisc.edu/about/language-instructors>) are an integral part of our department, teaching more than 14 languages during the academic year from East (Chinese, Japanese, Korean), South (Hindi, Persian, Sanskrit, Tibetan, Urdu), Southeast (Burmese, Filipino, Hmong, Indonesian, Thai, Vietnamese) Asian Languages.

## UNDERGRADUATE ADVISOR

Undergraduate Advisor:  
email Rachel Weiss ([rweiss@wisc.edu](mailto:rweiss@wisc.edu))  
1244 Van Hise Hall  
608-890-0138

## STAFF

Department Administrator:  
email Terry Nealon ([tenealon@wisc.edu](mailto:tenealon@wisc.edu))  
1210 Van Hise Hall  
608-262-0689

email the Graduate Coordinator ([alc@letsoci.wisc.edu](mailto:alc@letsoci.wisc.edu))  
1212 Van Hise Hall  
608-262-2291

## ASTRONOMY

Astronomy, the oldest of the sciences, for the last several decades has been one of the most exciting fields of modern scientific research. New discoveries concerning the solar system, stars, galaxies, and the origin of the universe continue to be made by both ground and space telescopes. To understand and pursue modern astronomy, one must have a solid background in physics and mathematics as well as in astronomy.

The astronomy–physics major, administered by the Department of Astronomy, provides undergraduates the opportunity to appreciate our current understanding of the astronomical universe, while developing the necessary physics and math background. Students who intend to continue astronomy in a graduate program are strongly encouraged to do a Senior Thesis (ASTRON 681 Senior Honors Thesis/ASTRON 682 Senior Honors Thesis (honors) or ASTRON 691 Senior Thesis/ASTRON 692 Senior Thesis). The experiences of actual research and of writing a major paper develop both technical and writing skills.

## DEGREES/MAJORS/CERTIFICATES

- Astronomy–Physics, B.A. (p. 415)
- Astronomy–Physics, B.S. (p. 417)

## PEOPLE

Professors Barger, Bershad, Gallagher, Heinz, Lazarian, Mathieu, Stanimirovic, Wilcots, Zweibel

Associate Professors Townsend, Tremonti

Assistant Professor D'Onghia

## ASTRONOMY–PHYSICS, B.A.

Astronomy, the oldest of the sciences, for the last several decades has been one of the most exciting fields of modern scientific research. New discoveries concerning the solar system, stars, galaxies, and the origin of the universe continue to be made by both ground and space telescopes. To understand and pursue modern astronomy, one must have a solid background in physics and mathematics as well as in astronomy.

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## HOW TO GET IN

Students are encouraged to declare their major as early as possible. Before declaring the major, students must complete the first two of the three classes in the Introductory PHYSICS sequence.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>

L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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	30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPAs	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 34 credits in the field of specialization, with at least 6 of these credits in ASTRON and at least 28 credits in PHYSICS.

### COURSE REQUIREMENTS FOR THE MAJOR ARE:

Code	Title	Credits
<b>Astronomy</b> <sup>1</sup>		
Select at least two of the following:		6
ASTRON 310	Stellar Astrophysics <sup>2</sup>	
ASTRON 320	The Interstellar Medium	
ASTRON 330	Galaxies <sup>2</sup>	
ASTRON 335	Cosmology <sup>2</sup>	
ASTRON 340	Solar System Astrophysics	
ASTRON 500	Techniques of Modern Observational Astrophysics <sup>2</sup>	
<b>Physics</b>		
Select one of the following sequences for Introductory Physics: <sup>3</sup>		28
Option 1 (Recommended Sequence):		
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
PHYSICS 249	A Modern Introduction to Physics	
Option 2:		
PHYSICS 201	General Physics	
PHYSICS 202	General Physics	
PHYSICS 205	Modern Physics for Engineers	
Option 3:		
PHYSICS 207	General Physics	
PHYSICS 208	General Physics	
PHYSICS 241	Introduction to Modern Physics	
Additional PHYSICS to reach minimum of 34 credits, to include the following:		
PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	
PHYSICS 415	Thermal Physics	
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics	
	or PHYSICS 531 Introduction to Quantum Mechanics	
Select a 300-level or higher laboratory course:		
ASTRON 510	Radio Astronomy Laboratory	
PHYSICS 308	Intermediate Laboratory-Electromagnetic Fields and Optics	

PHYSICS 321	Electric Circuits and Electronics	
Total Credits		34

- <sup>1</sup> ASTRON 103 The Evolving Universe: Stars, Galaxies, and Cosmology and ASTRON 104 Our Exploration of the Solar System are not required for majors.
- <sup>2</sup> ASTRON 310 Stellar Astrophysics is a prerequisite for ASTRON 330 Galaxies, ASTRON 335 Cosmology, and ASTRON 500 Techniques of Modern Observational Astrophysics.
- <sup>3</sup> E M A 201 Statics, E M A 202 Dynamics and M E 240 Dynamics count toward the 28 credits of PHYSICS requirement.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ASTRON, PHYSICS and major courses

2.000 GPA on 15 upper-level major credits in residence: ASTRON 300 through 699 and PHYSICS 300 through 699

15 credits in the ASTRON and PHYSICS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Astronomy–Physics Major in consultation with the Astronomy–Physics undergraduate advisor(s).

### HONORS IN THE ASTRONOMY-PHYSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Astronomy–Physics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ASTRON courses, and all courses accepted in the major, at the 300 level or higher
- Complete the following coursework:
  - Four 300-level or higher ASTRON courses
  - A two-semester Senior Honors Thesis in ASTRON 681 Senior Honors Thesis and ASTRON 682 Senior Honors Thesis, with a grade of AB or better, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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



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

major are available in the office of the undergraduate coordinator at 2554 Sterling Hall.

Please contact Professor Richard Townsend, townsend@astro.wisc.edu, 4550 Sterling Hall or Prof. Snezana Stanimirovic, sstanimi@astro.wisc.edu, 4514 Sterling Hall to schedule an appointment to declare the major; or contact department office for an advisor.

## LEARNING OUTCOMES

1. Learn how astronomical observations are made and how astronomical data are analyzed. Become acquainted with basic principles of astronomical imaging and spectroscopy, detectors, and interferometry. Apply simple statistical concepts learned previously in required laboratory courses to astronomical data. Use simple scientific computing methods to plan astronomical observations and analyze astronomical data.
2. Become familiar with current astrophysical theories and observations of basic systems such as planets, stars, interstellar gas, galaxies, and structure of the Universe (cosmology). Learn to apply physical principles and mathematical techniques learned previously in required courses to understand the natural laws governing these systems. Use simple scientific computing methods to analyze and physically interpret numerical models of astronomical systems.
3. Learn how to read and critically evaluate scientific literature. Students should be able to grasp the main points, scientific goals, and research methods used in an article and should be able to discern whether the article supports or conflicts with material presented elsewhere.
4. Learn the basics of oral and written scientific communication. Written coursework will be assessed on the basis of clear writing, appropriate level of detail in reporting calculations, and computations and appropriate bibliographic references and citations as well as on scientific accuracy. Learn to give clear and accurate short oral presentations with appropriate supporting materials.
5. Be trained in principles and standards of professional and ethical conduct. Learn when and how to cite references and when it is appropriate to credit the contributions of others or claim credit for one's own work. Learn what constitutes a professional or unprofessional demeanor and how to apply principles of equality in an educational or workplace setting. Learn how to address a breakdown of professional ethics and standards if experienced or observed.
6. Develop the skills to carry out a small independent research project. Learn to define the scope of the project, how to conduct an effective literature search, and perform computations, analyze data, and report on the literature as appropriate. Learn the basics of presenting the results of the project, whether as a paper, poster, talk, or some combination. The project may involve group work, or teamwork, depending on logistics and the nature of the project. *Note: Not all Astronomy majors engage in independent research; this learning goal applies only to majors who have a formal research advisor to perform the assessment.*

## ADVISING AND CAREERS

### ADVISING

For pre-major advising, or to declare the astronomy–physics major, students should contact Professor Townsend at townsend@astro.wisc.edu. Additional information and handouts on the

## RECOMMENDED ADDITIONAL COURSES

**Math:** Mathematics courses other than those required as prerequisites for PHYSICS courses are not required for the major, but the following courses are recommended: MATH 319 Techniques in Ordinary Differential Equations, MATH 321 Applied Mathematical Analysis and MATH 322 Applied Mathematical Analysis. If a student plans to work toward the Ph.D degree the student should also take MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra. Additional mathematics (or statistics) courses should be chosen after consultation with the undergraduate advisor.

**Computing:** Computers are fundamental to astronomical research. An introduction through COMP SCI 302 Introduction to Programming or short courses run by the computing center should be considered.

**Chemistry:** A college course in physical or organic chemistry is useful for astronomy students. Physical chemistry is particularly valuable for those interested in the interstellar medium, comets, and planets.

**Statistics:** A background in statistics is valuable, particularly for students interested in observational astronomy. STAT 301 Introduction to Statistical Methods, or STAT/MATH 309 Introduction to Probability and Mathematical Statistics I/STAT/MATH 310 Introduction to Probability and Mathematical Statistics II for a more solid foundation, are suggested.

**Languages:** French, German, Russian, and especially Spanish are the most useful foreign languages for astronomy students, but are not required.

## PEOPLE

Professors Barger, Bershady, Gallagher, Heinz, Lazarian, Mathieu, Stanimirovic, Wilcots, Zweibel

Associate Professors Townsend, Tremonti

Assistant Professor D'Onghia

## ASTRONOMY–PHYSICS, B.S.

Astronomy, the oldest of the sciences, for the last several decades has been one of the most exciting fields of modern scientific research. New discoveries concerning the solar system, stars, galaxies, and the origin of the universe continue to be made by both ground and space telescopes. To understand and pursue modern astronomy, one must have a solid background in physics and mathematics as well as in astronomy.

The astronomy–physics major, administered by the Department of Astronomy, provides undergraduates the opportunity to appreciate our current understanding of the astronomical universe, while developing the necessary physics and math background. Students who intend to continue astronomy in a graduate program are strongly encouraged to do a Senior Thesis (ASTRON 681 Senior Honors Thesis/ASTRON 682 Senior

Honors Thesis (honors) or ASTRON 691 Senior Thesis/ASTRON 692 Senior Thesis). The experiences of actual research and of writing a major paper develop both technical and writing skills.

## HOW TO GET IN

Students are encouraged to declare their major as early as possible. Before declaring the major, students must complete the first two of the three classes in the Introductory PHYSICS sequence.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
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Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 34 credits in the field of specialization, with at least 6 of these credits in ASTRON and at least 28 credits in PHYSICS.

#### COURSE REQUIREMENTS FOR THE MAJOR ARE:

Code	Title	Credits
<b>Astronomy</b> <sup>1</sup>		
Select at least two of the following:		6
ASTRON 310	Stellar Astrophysics <sup>2</sup>	
ASTRON 320	The Interstellar Medium	
ASTRON 330	Galaxies <sup>2</sup>	
ASTRON 335	Cosmology <sup>2</sup>	
ASTRON 340	Solar System Astrophysics	
ASTRON 500	Techniques of Modern Observational Astrophysics <sup>2</sup>	
<b>Physics</b>		
Select one of the following sequences for Introductory Physics: <sup>3</sup>		28
Option 1 (Recommended Sequence):		
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
PHYSICS 249	A Modern Introduction to Physics	
Option 2:		
PHYSICS 201	General Physics	

PHYSICS 202	General Physics
PHYSICS 205	Modern Physics for Engineers
Option 3:	
PHYSICS 207	General Physics
PHYSICS 208	General Physics
PHYSICS 241	Introduction to Modern Physics
<i>Additional PHYSICS to reach minimum of 34 credits, to include the following:</i>	
PHYSICS 311	Mechanics
PHYSICS 322	Electromagnetic Fields
PHYSICS 415	Thermal Physics
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics
or PHYSICS 531	Introduction to Quantum Mechanics
Select a 300-level or higher laboratory course:	
ASTRON 510	Radio Astronomy Laboratory
PHYSICS 308	Intermediate Laboratory-Electromagnetic Fields and Optics
PHYSICS 321	Electric Circuits and Electronics
Total Credits	34

- <sup>1</sup> ASTRON 103 The Evolving Universe: Stars, Galaxies, and Cosmology and ASTRON 104 Our Exploration of the Solar System are not required for majors.
- <sup>2</sup> ASTRON 310 Stellar Astrophysics is a prerequisite for ASTRON 330 Galaxies, ASTRON 335 Cosmology, and ASTRON 500 Techniques of Modern Observational Astrophysics.
- <sup>3</sup> E M A 201 Statics, E M A 202 Dynamics and M E 240 Dynamics count toward the 28 credits of PHYSICS requirement.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ASTRON, PHYSICS and major courses

2.000 GPA on 15 upper-level major credits in residence: ASTRON 300 through 699 and PHYSICS 300 through 699

15 credits in the ASTRON and PHYSICS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Astronomy–Physics Major in consultation with the Astronomy–Physics undergraduate advisor(s).

### HONORS IN THE ASTRONOMY-PHYSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Astronomy–Physics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ASTRON courses, and all courses accepted in the major, at the 300 level or higher
- Complete the following coursework:
  - Four 300-level or higher ASTRON courses
  - A two-semester Senior Honors Thesis in ASTRON 681 Senior Honors Thesis and ASTRON 682 Senior Honors Thesis, with a grade of AB or better, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Learn how astronomical observations are made and how astronomical data are analyzed. Become acquainted with basic principles of astronomical imaging and spectroscopy, detectors, and interferometry. Apply simple statistical concepts learned previously in required laboratory courses to astronomical data. Use simple scientific computing methods to plan astronomical observations and analyze astronomical data.
2. Become familiar with current astrophysical theories and observations of basic systems such as planets, stars, interstellar gas, galaxies, and structure of the Universe (cosmology). Learn to apply physical principles and mathematical techniques learned previously in required courses to understand the natural laws governing these systems. Use simple scientific computing methods to analyze and physically interpret numerical models of astronomical systems.
3. Learn how to read and critically evaluate scientific literature. Students should be able to grasp the main points, scientific goals, and research methods used in an article and should be able to discern whether the article supports or conflicts with material presented elsewhere.
4. Learn the basics of oral and written scientific communication. Written coursework will be assessed on the basis of clear writing, appropriate level of detail in reporting calculations, and computations and appropriate bibliographic references and citations as well as on scientific accuracy. Learn to give clear and accurate short oral presentations with appropriate supporting materials.
5. Be trained in principles and standards of professional and ethical conduct. Learn when and how to cite references and when it is appropriate to credit the contributions of others or claim credit for one's own work. Learn what constitutes a professional or unprofessional demeanor and how to apply principles of equality in an educational or workplace setting. Learn how to address a breakdown of professional ethics and standards if experienced or observed.

6. Develop the skills to carry out a small independent research project. Learn to define the scope of the project, how to conduct an effective literature search, and perform computations, analyze data, and report on the literature as appropriate. Learn the basics of presenting the results of the project, whether as a paper, poster, talk, or some combination. The project may involve group work, or teamwork, depending on logistics and the nature of the project. *Note: Not all Astronomy majors engage in independent research; this learning goal applies only to majors who have a formal research advisor to perform the assessment.*

## ADVISING AND CAREERS

### ADVISING

For pre-major advising, or to declare the astronomy–physics major, students should contact Professor Townsend at townsend@astro.wisc.edu. Additional information and handouts on the major are available in the office of the undergraduate coordinator at 2554 Sterling Hall.

Please contact Professor Richard Townsend, townsend@astro.wisc.edu, 4550 Sterling Hall or Prof. Snezana Stanimirovic, sstanimi@astro.wisc.edu, 4514 Sterling Hall to schedule an appointment to declare the major; or contact department office for an advisor.

### RECOMMENDED ADDITIONAL COURSES

**Math:** Mathematics courses other than those required as prerequisites for PHYSICS courses are not required for the major, but the following courses are recommended: MATH 319 Techniques in Ordinary Differential Equations, MATH 321 Applied Mathematical Analysis and MATH 322 Applied Mathematical Analysis. If a student plans to work toward the Ph.D degree the student should also take MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra. Additional mathematics (or statistics) courses should be chosen after consultation with the undergraduate advisor.

**Computing:** Computers are fundamental to astronomical research. An introduction through COMP SCI 302 Introduction to Programming or short courses run by the computing center should be considered.

**Chemistry:** A college course in physical or organic chemistry is useful for astronomy students. Physical chemistry is particularly valuable for those interested in the interstellar medium, comets, and planets.

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**Languages:** French, German, Russian, and especially Spanish are the most useful foreign languages for astronomy students, but are not required.

## PEOPLE

Professors Barger, Bershady, Gallagher, Heinz, Lazarian, Mathieu, Stanimirovic, Wilcots, Zweibel

Associate Professors Townsend, Tremonti

Assistant Professor D'Onghia

## ATMOSPHERIC AND OCEANIC SCIENCES

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

## DEGREES/MAJORS/CERTIFICATES

- Atmospheric and Oceanic Sciences, B.A. (p. 421)
- Atmospheric and Oceanic Sciences, B.S. (p. 424)
- Environmental Sciences, B.A. (L&S) (p. 427)
- Environmental Sciences, B.S. (L&S) (p. 434)

## PEOPLE

### EXECUTIVE COMMITTEE

Balster, Nick, Associate Professor, Department of Soil Science

Martin, Jonathan, Professor, Department of Atmospheric and Oceanic Sciences

Thompson, Anita, Professor, Department of Biological Systems Engineering

### PROGRAM COMMITTEE

Bertram, Timothy, Associate Professor, Department of Chemistry

Grainger, Corbett, Assistant Professor Department of Agricultural and Applied Economics

Harrington, John, Professor, Department of Landscape Architecture

Holloway, Tracey, Professor, Nelson Institute for Environmental Studies

Hotchkiss, Sara, Professor, Department of Botany

Kanarek, Marty, Professor, Department of Population Health Sciences

Schauer, James, Professor, Department of Civil and Environmental Engineering

Stoltenberg, David, Professor, Department of Agronomy

## ATMOSPHERIC AND OCEANIC SCIENCES, B.A.

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

## HOW TO GET IN

Because the atmospheric and oceanic sciences involve applying the principles and techniques of physical science to the fluid atmosphere and ocean, a strong background in mathematics, physics, and chemistry is necessary. Admission to the atmospheric and oceanic sciences major requires a combined grade point average of 2.250 or better in the following courses:

Code	Title	Credits
<b>Calculus</b>		
Select three semesters equivalent to the following:		
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	Calculus—Functions of Several Variables	
Two semesters, calculus-based physics;		

First semester Physics, one from:

PHYSICS 207	General Physics
PHYSICS 201	General Physics
PHYSICS 247	A Modern Introduction to Physics

Second semester Physics, one from:

PHYSICS 208	General Physics
PHYSICS 202	General Physics
PHYSICS 248	A Modern Introduction to Physics

### Chemistry

Select any one semester course in subject CHEM

### Computer Sciences

Select one COMP SCI course in programming such as C++, Fortran, Python, Matlab or another approved language (or working programming knowledge in one of these languages).

COMP SCI 301	Introduction to Data Programming	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 310	Problem Solving Using Computers	3

A Declaration of Major form must be completed by the student and authorized by the department undergraduate advisor. The undergraduate advisor will require a transcript or DARS report at this time.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Background Requirements</b>		
<i>Calculus</i>		

Select three semesters equivalent to the following:

MATH 221	Calculus and Analytic Geometry 1
MATH 222	Calculus and Analytic Geometry 2
MATH 234	Calculus–Functions of Several Variables

*Two semesters, calculus-based physics;*

First semester Physics, one from:	
PHYSICS 207	General Physics
PHYSICS 201	General Physics
PHYSICS 247	A Modern Introduction to Physics

Second semester Physics, one from:	
PHYSICS 208	General Physics
PHYSICS 202	General Physics
PHYSICS 248	A Modern Introduction to Physics

#### Chemistry

Select any one semester course in subject CHEM

#### Computer Sciences

Select one COMP SCI course in programming such as C+ +, Fortran, Python, Matlab or another approved language (or working programming knowledge in one of these languages).

COMP SCI 301	Introduction to Data Programming
COMP SCI 302	Introduction to Programming
COMP SCI 310	Problem Solving Using Computers

Code	Title	Credits
<b>Core Sequence</b>		

Complete ten credits in core sequence: <sup>1</sup> 10

ATM OCN 310	Dynamics of the Atmosphere and Ocean I	
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	
ATM OCN 330	Physics of the Atmosphere and Ocean I	
ATM OCN 340	Physics of the Atmosphere and Ocean II	

**Quantitative Analysis** 3

Select at least one course in MATH (MATH/STAT 309 to 632), COMP SCI (COMP SCI 412, 475, 514, 525), or STAT (STAT/MATH 309 to 690)

**ATM OCN Electives, to include:** 12

ATM OCN 405	AOS Senior Capstone Seminar <sup>2</sup>
ATM OCN Courses Numbered 400 and higher to reach 12 credits <sup>3</sup>	

Total Credits 25

<sup>1</sup> Note that core sequence begins in the fall semester only.

<sup>2</sup> The 12 credits of ATM OCN electives, number 400 or higher, shall include at least 1 credit in ATM OCN 405, or an independent study research project, or a senior thesis.

<sup>3</sup> No more than 2 of the 12 credits may be earned with internships or directed-study credits.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ATM OCN and major courses

2.000 GPA on 15 upper-level credits in the major, taken in residence: ATM OCN 300 through ATM OCN 699

15 credits in ATM OCN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Atmospheric and Oceanic Sciences Major in consultation with the Atmospheric and Oceanic Sciences undergraduate advisor.

### HONORS IN THE ATMOSPHERIC AND OCEANIC SCIENCES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Atmospheric and Oceanic Sciences students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all ATM OCN courses, and all courses accepted in the major
- Complete the following additional coursework:
  - ATM OCN 601 Challenging Problems of Atmospheric and Oceanic Sciences or ATM OCN 611 Geophysical Fluid Dynamics II and
  - A two-semester Senior Honors Thesis in ATM OCN 681 Senior Honors Thesis and ATM OCN 682 Senior Honors Thesis, for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

Graduates of the Department of Atmospheric and Oceanic Sciences will be able to:

1. recognize and describe the fundamental principles and processes associated with the dynamics and thermodynamics of geophysical fluid flows, the basic physics of clouds, aerosols, and precipitation;

2. recognize and describe the fundamental principles and processes associated with radiation and atmospheric and oceanic radiative transfer;
3. demonstrate critical thinking skills by identifying a problem, identifying the required information to solve that problem; and formulating and interpreting solutions to that problem using appropriate analytical and/or computational techniques;
4. apply diagnostic tools to analyses and numerical model output to diagnose, describe, and interpret the fundamental dynamical and thermodynamical processes at work in synoptic-scale, mesoscale, and large-scale weather systems and climate circulations;
5. apply fundamental radiative transfer theory to interpret remotely-sensed observations of atmospheric and oceanic phenomena;
6. design and conduct experiments and/or analyze data to test hypotheses in an area of atmospheric or climate sciences; and
7. demonstrate effective scientific communication skills through development and delivery of oral presentations (including poster presentations) and written reports and case studies.

## ADVISING AND CAREERS

### GENERAL ADVISING

Any student interested in the atmospheric and oceanic sciences major must complete prerequisite coursework and then declare the major. A Major Declaration Form must be completed by the student and authorized by the departmental undergraduate advisor. Students should make an appointment to meet with Professor Michael Morgan to complete the major declaration process. Professor Morgan can be reached at 608-265-8159 or [mcmorgan@wisc.edu](mailto:mcmorgan@wisc.edu) ([mcmorgan@wisc.edu](mailto:mcmorgan@wisc.edu)). Students should bring a current DARS report to their individual student appointment.

### HONORS IN THE MAJOR IN ATMOSPHERIC AND OCEANIC SCIENCES

The honors degree track is meant to provide additional training for an undergraduate wishing to pursue graduate work in atmospheric and oceanic sciences. The honors student should select an advisor in the department for guidance in their work in Honors in the Major.

### CAREER ADVISING

The Department of Atmospheric and Oceanic Sciences encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)

- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

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Thompson, Anita, Professor, Department of Biological Systems Engineering

### PROGRAM COMMITTEE

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Stoltenberg, David, Professor, Department of Agronomy

## ATMOSPHERIC AND OCEANIC SCIENCES, B.S.

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

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general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

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MATH 234	Calculus—Functions of Several Variables	
Two semesters, calculus-based physics;		
First semester Physics, one from:		
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
Second semester Physics, one from:		
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
<b>Chemistry</b>		
Select any one semester course in subject CHEM		
<b>Computer Sciences</b>		
Select one COMP SCI course in programming such as C++ , Fortran, Python, Matlab or another approved language (or working programming knowledge in one of these languages).		
COMP SCI 301	Introduction to Data Programming	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 310	Problem Solving Using Computers	3

A Declaration of Major form must be completed by the student and authorized by the department undergraduate advisor. The undergraduate advisor will require a transcript or DARS report at this time.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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



Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
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#### Background Requirements

##### Calculus

Select three semesters equivalent to the following:

MATH 221	Calculus and Analytic Geometry 1
MATH 222	Calculus and Analytic Geometry 2
MATH 234	Calculus—Functions of Several Variables

Two semesters, calculus-based physics;

First semester Physics, one from:	
PHYSICS 207	General Physics
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PHYSICS 247	A Modern Introduction to Physics

Second semester Physics, one from:

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PHYSICS 202	General Physics
PHYSICS 248	A Modern Introduction to Physics

##### Chemistry

Select any one semester course in subject CHEM

##### Computer Sciences

Select one COMP SCI course in programming such as C+ +, Fortran, Python, Matlab or another approved language (or working programming knowledge in one of these languages).

COMP SCI 301	Introduction to Data Programming
COMP SCI 302	Introduction to Programming
COMP SCI 310	Problem Solving Using Computers

Code	Title	Credits
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#### Core Sequence

Complete ten credits in core sequence: <sup>1</sup> 10

ATM OCN 310	Dynamics of the Atmosphere and Ocean I
ATM OCN 311	Dynamics of the Atmosphere and Ocean II
ATM OCN 330	Physics of the Atmosphere and Ocean I
ATM OCN 340	Physics of the Atmosphere and Ocean II

#### Quantitative Analysis 3

Select at least one course in MATH (MATH/STAT 309 to 632), COMP SCI (COMP SCI 412, 475, 514, 525), or STAT (STAT/MATH 309 to 690)

**ATM OCN Electives, to include: 12**

ATM OCN 405	AOS Senior Capstone Seminar <sup>2</sup>
ATM OCN Courses Numbered 400 and higher to reach 12 credits <sup>3</sup>	
Total Credits	25

- <sup>1</sup> Note that core sequence begins in the fall semester only.
- <sup>2</sup> The 12 credits of ATM OCN electives, number 400 or higher, shall include at least 1 credit in ATM OCN 405, or an independent study research project, or a senior thesis.
- <sup>3</sup> No more than 2 of the 12 credits may be earned with internships or directed-study credits.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ATM OCN and major courses

2.000 GPA on 15 upper-level credits in the major, taken in residence: ATM OCN 300 through ATM OCN 699

15 credits in ATM OCN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Atmospheric and Oceanic Sciences Major in consultation with the Atmospheric and Oceanic Sciences undergraduate advisor.

## HONORS IN THE ATMOSPHERIC AND OCEANIC SCIENCES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Atmospheric and Oceanic Sciences students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all ATM OCN courses, and all courses accepted in the major
- Complete the following additional coursework:
  - ATM OCN 601 Challenging Problems of Atmospheric and Oceanic Sciences or ATM OCN 611 Geophysical Fluid Dynamics II and
  - A two-semester Senior Honors Thesis in ATM OCN 681 Senior Honors Thesis and ATM OCN 682 Senior Honors Thesis, for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

## LEARNING OUTCOMES

Graduates of the Department of Atmospheric and Oceanic Sciences will be able to:

1. recognize and describe the fundamental principles and processes associated with the dynamics and thermodynamics of geophysical fluid flows, the basic physics of clouds, aerosols, and precipitation;
2. recognize and describe the fundamental principles and processes associated with radiation and atmospheric and oceanic radiative transfer;
3. demonstrate critical thinking skills by identifying a problem, identifying the required information to solve that problem; and formulating and interpreting solutions to that problem using appropriate analytical and/or computational techniques;
4. apply diagnostic tools to analyses and numerical model output to diagnose, describe, and interpret the fundamental dynamical and thermodynamical processes at work in synoptic-scale, mesoscale, and large-scale weather systems and climate circulations;
5. apply fundamental radiative transfer theory to interpret remotely-sensed observations of atmospheric and oceanic phenomena;
6. design and conduct experiments and/or analyze data to test hypotheses in an area of atmospheric or climate sciences; and
7. demonstrate effective scientific communication skills through development and delivery of oral presentations (including poster presentations) and written reports and case studies.

## ADVISING AND CAREERS

### GENERAL ADVISING

Any student interested in the atmospheric and oceanic sciences major must complete prerequisite coursework and then declare the major. A Major Declaration Form must be completed by the student and authorized by the departmental undergraduate advisor. Students should make an appointment to meet with Professor Michael Morgan to complete the major declaration process. Professor Morgan can be reached at 608-265-8159 or mcmorgan@wisc.edu (mcmorgan@wisc.edu). Students should bring a current DARS report to their individual student appointment.

### HONORS IN THE MAJOR IN ATMOSPHERIC AND OCEANIC SCIENCES

The honors degree track is meant to provide additional training for an undergraduate wishing to pursue graduate work in atmospheric and oceanic sciences. The honors student should select an advisor in the department for guidance in their work in Honors in the Major.

### CAREER ADVISING

The Department of Atmospheric and Oceanic Sciences encourages majors to begin working on their career exploration and preparation

soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

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Kanarek, Marty, Professor, Department of Population Health Sciences

Schauer, James, Professor, Department of Civil and Environmental Engineering

Stoltenberg, David, Professor, Department of Agronomy

sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in environmental sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences, and the College of Letters & Science.

The environmental sciences major can be earned in either the College of Agricultural and Life Sciences (CALs) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CALs and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CALs, the major is housed administratively in the Department of Soil Science.
- In L&S, the major is housed administratively in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including environmental studies, life sciences communication, agronomy, soil science, landscape architecture, foreign language/culture, and a number of other disciplines.

Up-to-date information, curriculum, and requirements are posted at [envirosoci.wisc.edu](https://envirosoci.wisc.edu) (<https://envirosoci.wisc.edu>).

## HOW TO GET IN

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALs undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

## ENVIRONMENTAL SCIENCES, B.A. (L&S)

The environmental sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private

needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
	Mathematics & Statistics	8-13
	Chemistry	8-12
	Biology	8-10
	Physics	8-10
	Major Foundation	3-5
	Major Core	12
	Major Electives	12
	Capstone	2-6
<b>Total Credits</b>		<b>61-80</b>

### MATHEMATICS AND STATISTICS

This major requires calculus. Prerequisites may need to be taken before enrollment in calculus. Refer to the Course Guide for information about calculus prerequisites.

Code	Title	Credits
Select one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1 (Recommended)	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 211	Calculus	
Select one of the following:		3
STAT 224	Introductory Statistics for Engineers	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-13</b>

### CHEMISTRY

Code	Title	Credits
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II or Advanced General Chemistry	5-9
Select one of the following:		3

CHEM 341	Elementary Organic Chemistry	
CHEM 343	Introductory Organic Chemistry	
CHEM 561	Physical Chemistry	
Total Credits		8-12

## BIOLOGY

Code	Title	Credits
Select one of the following: 10		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
Total Credits		10

## PHYSICS

Code	Title	Credits
Select on of the following: 8-10		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (Recommended)	
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
Total Credits		8-10

## MAJOR FOUNDATION

Code	Title	Credits
Select one of the following: 3-5		
ENVIR ST/ILS 126	Principles of Environmental Science	
ENVIR ST/ GEOG 127	Physical Systems of the Environment	
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOSCI/ ENVIR ST 106	Environmental Geology	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
Total Credits		3-5

## MAJOR CORE

Select at least 3 credits from each of the following subsets:

## Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

## Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3

CIV ENGR 424	Environmental Engineering Laboratory	2	C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
GEOG/GEOSCI 320	Geomorphology	3	ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
GEOG 321	Climatology	3	ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4	ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG 329	Landforms and Landscapes of North America	3	GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3	GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/BOTANY 338	Environmental Biogeography	3	GEOG/ENVIR ST 537	Culture and Environment	4
GEOG/GEOSCI 524	Advanced Landform Geography	3	GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI 304	Geobiology	3	GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI/G L E 627	Hydrogeology	3-4	POLI SCI 510	Politics of Government Regulation	3-4
SOIL SCI 301	General Soil Science	4	URB R PL/ECON/ ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4
SOIL SCI 321	Soils and Environmental Chemistry	3			
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3			
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3			
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3			

### Geospatial Sciences

Code	Title	Credits
COMP SCI 301	Introduction to Data Programming	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3

## MAJOR ELECTIVES

Select one of two tracks:

### Distributed Electives

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1

F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3

SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
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### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Area of Focus

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.<sup>1</sup>

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2

F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3

SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
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### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3



GEOSCI/ ENVIR ST 411	Energy Resources	3
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ECON/ ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

<sup>1</sup> Consult environmental sciences advisor regarding alternate ways to complete the major electives.

## CAPSTONE <sup>1</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL 577	Complexity and Conservation of White-tailed Deer	3
F&W ECOL 590	Integrated Resource Management	3
F&W ECOL 599	Wildlife Research Capstone	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 551	Senior Project in Landscape Architecture	4
LAND ARC 666	Restoration Ecology	3
SOIL SCI 499	Soil Management	3

<sup>1</sup> Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the Capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee. Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

## RESIDENCE & QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA and 15 credits of upper-level major courses (those numbered 300 and higher), taken in residence <sup>1</sup>

15 credits in the major taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Honors in the Major is not available in Environmental Sciences.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.
6. Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.
7. Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).
8. Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

## ADVISING AND CAREERS

### ADVISING

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALS undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

### CAREERS

A major in environmental sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, forest ranger, oceanographer, agricultural technician, engineering technician, forester, air and water quality manager, environmental analyst, park ranger, air pollution analyst, environmental consultant, environmental educator, geologist, project manager, environmental engineer, geophysicist, biologist, hazardous waste manager, hydrologist, environmental lawyer, chemical technician, soil conservation technician, chemist, management consultant, teacher, meteorologist, urban and regional planner, civil engineer, environmental planner, microbiologist/wastewater plant operator, natural resource specialist, wildlife manager, conservationist, or zoologist. For more info about careers, please visit our website (<http://envirosoci.wisc.edu/careers-internships>).

## PEOPLE

### EXECUTIVE COMMITTEE

Balster, Nick, Associate Professor, Department of Soil Science

Martin, Jonathan, Professor, Department of Atmospheric and Oceanic Sciences

Thompson, Anita, Professor, Department of Biological Systems Engineering

### PROGRAM COMMITTEE

Bertram, Timothy, Associate Professor, Department of Chemistry

Grainger, Corbett, Assistant Professor Department of Agricultural and Applied Economics

Harrington, John, Professor, Department of Landscape Architecture

Holloway, Tracey, Professor, Nelson Institute for Environmental Studies

Hotchkiss, Sara, Professor, Department of Botany

Kanarek, Marty, Professor, Department of Population Health Sciences

Schauer, James, Professor, Department of Civil and Environmental Engineering

Stoltenberg, David, Professor, Department of Agronomy

## ENVIRONMENTAL SCIENCES, B.S. (L&S)

The environmental sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in environmental sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences, and the College of Letters & Science.

The environmental sciences major can be earned in either the College of Agricultural and Life Sciences (CALS) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CALS and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CALS, the major is housed administratively in the Department of Soil Science.
- In L&S, the major is housed administratively in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including environmental studies, life sciences communication, agronomy, soil science, landscape architecture, foreign language/culture, and a number of other disciplines.

Up-to-date information, curriculum, and requirements are posted at [envirosoci.wisc.edu](http://envirosoci.wisc.edu) (<https://envirosoci.wisc.edu>).

## HOW TO GET IN

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALS undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
	Mathematics & Statistics	8-13
	Chemistry	8-12
	Biology	8-10
	Physics	8-10
	Major Foundation	3-5
	Major Core	12
	Major Electives	12
	Capstone	2-6
	Total Credits	61-80

### MATHEMATICS AND STATISTICS

This major requires calculus. Prerequisites may need to be taken before enrollment in calculus. Refer to the Course Guide for information about calculus prerequisites.

Code	Title	Credits
	Select one of the following:	5-10
MATH 221	Calculus and Analytic Geometry 1 (Recommended)	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 211	Calculus	
	Select one of the following:	3
STAT 224	Introductory Statistics for Engineers	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	

STAT 371	Introductory Applied Statistics for the Life Sciences	
Total Credits		8-13

**CHEMISTRY**

Code	Title	Credits
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	5-9
Select one of the following:		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343	Introductory Organic Chemistry	
CHEM 561	Physical Chemistry	
Total Credits		8-12

**BIOLOGY**

Code	Title	Credits
Select one of the following:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
Total Credits		10

**PHYSICS**

Code	Title	Credits
Select on of the following:		8-10
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (Recommended)	
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
Total Credits		8-10

**MAJOR FOUNDATION**

Code	Title	Credits
Select one of the following:		3-5
ENVIR ST/ILS 126	Principles of Environmental Science	
ENVIR ST/ GEOG 127	Physical Systems of the Environment	

GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOSCI/ ENVIR ST 106	Environmental Geology	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
Total Credits		3-5

**MAJOR CORE**

Select at least 3 credits from each of the following subsets:

**Ecology**

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

**Physical Environment**

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3

ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

### Geospatial Sciences

Code	Title	Credits
COMP SCI 301	Introduction to Data Programming	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ECON/ ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

### MAJOR ELECTIVES

Select one of two tracks:

#### Distributed Electives

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

#### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3

ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3

GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Area of Focus

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.<sup>1</sup>

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3

ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/GEOG 323	Science of Climate Change	3
ATM OCN/ENVIR ST/ GEOG 331	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG 329	Landforms and Landscapes of North America	3

GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOSCI 304	Geobiology	3
GEOSCI/G L E 627	Hydrogeology	3-4
SOIL SCI 301	General Soil Science	4
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

### Geospatial Sciences

Code	Title	Credits
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3
C&E SOC/F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2

ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/PHILOS 441	Environmental Ethics	3-4
ENVIR ST/HIST SCI/MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/HISTORY 460	American Environmental History	4
GEOG/ENVIR ST 537	Culture and Environment	4
GEOSCI/ENVIR ST 410	Minerals as a Public Problem	3
GEOSCI/ENVIR ST 411	Energy Resources	3
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ECON/ENVIR ST/POLI SCI 449	Government and Natural Resources	3-4

<sup>1</sup> Consult environmental sciences advisor regarding alternate ways to complete the major electives.

## CAPSTONE <sup>1</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/F&W ECOL/ZOOLOGY 651	Conservation Biology	3
ENVIR ST/SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL 577	Complexity and Conservation of White-tailed Deer	3
F&W ECOL 590	Integrated Resource Management	3
F&W ECOL 599	Wildlife Research Capstone	3
F&W ECOL/A A E/ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 551	Senior Project in Landscape Architecture	4
LAND ARC 666	Restoration Ecology	3
SOIL SCI 499	Soil Management	3

<sup>1</sup> Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the Capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee. Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA and 15 credits of upper-level major courses (those numbered 300 and higher), taken in residence <sup>1</sup>

15 credits in the major taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Honors in the Major is not available in environmental sciences.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.
6. Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.



7. Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).
8. Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

## ADVISING AND CAREERS

### ADVISING

Students wishing to declare the environmental sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising>).

CALS undergraduate students interested in pursuing the environmental sciences major in the College of Agricultural and Life Sciences should contact Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu) or 608-807-7391.

L&S undergraduate students interested in pursuing the environmental sciences major in the College of Letters & Science should contact Eric Schueffner, [elschueffner@wisc.edu](mailto:elschueffner@wisc.edu) or 608-890-3231.

### CAREERS

A major in environmental sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, forest ranger, oceanographer, agricultural technician, engineering technician, forester, air and water quality manager, environmental analyst, park ranger, air pollution analyst, environmental consultant, environmental educator, geologist, project manager, environmental engineer, geophysicist, biologist, hazardous waste manager, hydrologist, environmental lawyer, chemical technician, soil conservation technician, chemist, management consultant, teacher, meteorologist, urban and regional planner, civil engineer, environmental planner, microbiologist/wastewater plant operator, natural resource specialist, wildlife manager, conservationist, or zoologist. For more info about careers, please visit our website (<http://envirosoci.wisc.edu/careers-internships>).

## PEOPLE

### EXECUTIVE COMMITTEE

Balster, Nick, Associate Professor, Department of Soil Science

Martin, Jonathan, Professor, Department of Atmospheric and Oceanic Sciences

Thompson, Anita, Professor, Department of Biological Systems Engineering

### PROGRAM COMMITTEE

Bertram, Timothy, Associate Professor, Department of Chemistry

Grainger, Corbett, Assistant Professor Department of Agricultural and Applied Economics

Harrington, John, Professor, Department of Landscape Architecture

Holloway, Tracey, Professor, Nelson Institute for Environmental Studies

Hotchkiss, Sara, Professor, Department of Botany

Kanarek, Marty, Professor, Department of Population Health Sciences

Schauer, James, Professor, Department of Civil and Environmental Engineering

Stoltenberg, David, Professor, Department of Agronomy

## BACTERIOLOGY

For more than a century, the University of Wisconsin–Madison Department of Bacteriology has been known for outstanding research and teaching, and we are committed to a future in which this excellence will continue. Because we engage people with widely differing backgrounds, talents, perspectives, and styles, we achieve excellence through diversity.

In brief, we produce discoveries that contribute to basic knowledge, we develop practical applications that affect lives, and we provide superior training for the next generation of microbiologists. With our training, undergraduate and graduate students begin careers that contribute to the world in many ways—in research, teaching, industry, entrepreneurship, scientific writing and editing, and government service. Our faculty, staff, and students have created a vibrant place to learn, teach, and conduct research; a place rich in opportunity, ideas, creativity, and resources; and a place where people can flourish and discover their own potential.

## DEGREES/MAJORS/CERTIFICATES

- Microbiology, B.A. (L&S) (p. 441)
- Microbiology, B.S. (L&S) (p. 445)

## PEOPLE

Professors Charles Kaspar (chair), Jean-Michel Ané, Cameron Currie, Timothy Donohue, Marcin Filutowicz, Katrina Forest, Richard Gourse, Eric Johnson, John Mansfield, Katherine "Trina" McMahon, Michael Thomas, Karen Wassarman, and Jae-Hyuk Yu

Associate Professor Jue "Jade" Wang

Assistant Professors Daniel Amador-Noguez, Briana Burton, Federico Rey, Garret Suen, and Kalin Vetsigian

## MICROBIOLOGY, B.A. (L&S)

Microbiology, the study of microorganisms, helps us understand our world and solve major problems. Microorganisms, or microbes, were the first life forms on earth and influence our lives and our planet in innumerable ways. The field of microbiology is constantly expanding as we learn more about the role of microbes in infectious disease, environmental remediation, bioenergy, food safety, antibiotic resistance, biotechnology and much more. Communities of microbes (or "microbiomes") are critically important in human health, global warming, agricultural yield, criminal justice, economic development and other issues of national concern.

The **microbiology major**, offered by the Department of Bacteriology, is a rigorous path of study, providing a curriculum packed with deep knowledge on broad aspects of microbiology and emphasizing modern laboratory skills. The core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective

courses provide the opportunity to study environmental microbiology, food microbiology, microbial pathogenesis, immunology, virology, microbiomes and microbial biotechnology, as well as advanced topics in microbial genetics and physiology. In the instructional laboratory courses, students learn beginning through advanced laboratory techniques—gaining the type of hands-on experiences with modern equipment that employers and graduate schools seek. Additionally, students can conduct mentored and independent research projects in faculty laboratories.

The bachelor's degree provides a strong background in the biological sciences for students planning to enter medical, dental, veterinary or other professional schools, as well as those planning graduate studies in any branch of microbiology or other biological sciences such as biochemistry, pathology, and molecular or cell biology.

Students who end their training with a bachelor's degree are well-prepared for a variety of career opportunities, including laboratory positions in pharmaceutical and biotechnology firms and in university and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process as well as training in microbiology allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

## HOW TO GET IN

Incoming or current students in good academic standing may declare the microbiology major at any time.

Schedule an appointment (<https://calendar.wisc.edu/scheduling-assistant/schedule/RAUHTzYt/view.html?jsessionid=89D5FEA38114F159C48E4959F05B91E1.primary>) with Katy France to discuss the microbiology major, appropriate coursework, how to declare, and so on.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin—Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	• Complete the fourth unit of a foreign language; OR • Complete the third unit of a foreign language and the second unit of an additional foreign language
	Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPAs	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
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### Mathematics

Select one of the following:

MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	10
MATH 211	Calculus	5
MATH 221	Calculus and Analytic Geometry 1	5

Code	Title	Credits
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### Statistics

Select one of the following:

STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
STAT/B M I 541	Introduction to Biostatistics	3

Code	Title	Credits
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### General Chemistry

Select one of the following:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5

Code	Title	Credits
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### Organic Chemistry

Select ALL of the following:

CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3

Code	Title	Credits
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### Biology Foundation

Select one of the following:

BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	10
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Organismal Biology <sup>1</sup>	13

BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BIOLOGY/ BOTANY 130	Animal Biology and Animal Biology Laboratory and General Botany	10
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<sup>1</sup> BIOLOGY/BOTANY/ZOOLOGY 151/BIOLOGY/BOTANY/ZOOLOGY 152 or BIOCORE 381/BIOCORE 382/BIOCORE 383/BIOCORE 384/BIOCORE 485 are recommended.

Code	Title	Credits
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### Physics

Select one of the following:

PHYSICS 103 & PHYSICS 104	General Physics and General Physics	8
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

Code	Title	Credits
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### Biochemistry

Select one of the following:

BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	6

Code	Title	Credits
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### Microbiology Courses

*Microbiology Core (all required):*

Except where noted, all Microbiology Core courses are offered every fall and spring semester.

MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology (Note: fall only)	2

*Microbiology Capstone (required):*

MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory (Note: spring only)	2
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*Microbiology Electives:*

Select at least 6 credits; at least 3 credits must come from Set A. Note that not all elective courses are offered every semester.

Set A:

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	2
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MICROBIO/ FOOD SCI 325	Food Microbiology	3
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO 375	Special Topics (topics and pre-requisites vary by semester)	1-4
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)	1
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
MICROBIO/BOTANY/ GENETICS/M M & I/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3
Set B:		
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BOTANY 330	Algae	3
BOTANY/ PL PATH 332	Fungi	4
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
CHEM 565	Biophysical Chemistry	4
COMP SCI/B M I 576	Introduction to Bioinformatics	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
M M & I 301	Pathogenic Bacteriology	2
M M & I 341	Immunology	3
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
M M & I 410	Medical Mycology	2
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
M M & I/ BIOCHEM 575	Biology of Viruses	2
M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3

## L&S RESIDENCE AND QUALITY OF WORK

2.000 GPA in all MICROBIO courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>

15 credits of MICROBIO or courses counting toward the major, taken on campus

<sup>1</sup> MICROBIO 300 through 699 count as upper level in the major, excluding MICROBIO 303 and MICROBIO 304. Intermediate- and advanced-level courses outside of MICROBIO that count for the major are also considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Microbiology Major in consultation with the Microbiology undergraduate advisor.

## HONORS IN THE MICROBIOLOGY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Microbiology students must satisfy both the requirements for the major (above) and the following requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all MICROBIO courses, and all courses accepted in the major
- Complete 15 credits, taken for Honors, with individual grades of B or better. 6 credits must come from a two-semester Senior Honors Thesis in MICROBIO 681 Senior Honors Thesis and MICROBIO 682 Senior Honors Thesis. Select remaining courses from the following list:

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
MICROBIO/ FOOD SCI 650	Advanced Microbiology of Foodborne Pathogens	3

MICROBIO/ Microbiology at Atomic Resolution 3  
 BMOLCHEM 668

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology.
2. Students will apply the scientific method to questions. They will formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
3. Students will demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving.
4. Students will be able to access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
5. Students will learn about and demonstrate personal and professional ethics.

## ADVISING AND CAREERS

Current UW–Madison students can schedule initial advising (<https://calendar.wisc.edu/scheduling-assistant/schedule/RAUHTzYt/view.html>) in the microbiology major with Katy France.

Prospective/future UW–Madison students should email ([katy.france@wisc.edu](mailto:katy.france@wisc.edu)) Katy France to set up an appointment, which can be conducted in person or via phone call.

Read about and explore possible microbiology careers at the American Society for Microbiology (<https://www.asm.org/index.php/learn-about-careers>) website.

Learn more about health-related careers through the ExploreHealthCareers.org (<https://explorehealthcareers.org>) website.

## PEOPLE

Professors Charles Kaspar (chair), Jean-Michel Ané, Cameron Currie, Timothy Donohue, Marcin Filutowicz, Katrina Forest, Richard Gourse, Eric Johnson, John Mansfield, Katherine "Trina" McMahon, Michael Thomas, Karen Wassarman, and Jae-Hyuk Yu

Associate Professor Jue "Jade" Wang

Assistant Professors Daniel Amador-Noguez, Briana Burton, Federico Rey, Garret Suen, and Kalin Vetsigian

## MICROBIOLOGY, B.S. (L&S)

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Students who end their training with a bachelor's degree are well-prepared for a variety of career opportunities, including laboratory positions in pharmaceutical and biotechnology firms and in university and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process as well as training in microbiology allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

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#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Mathematics</b>		
Select one of the following:		
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	10
MATH 211	Calculus	5
MATH 221	Calculus and Analytic Geometry 1	5
<b>Code</b>		
<b>Title</b>		
<b>Credits</b>		
<b>Statistics</b>		
Select one of the following:		
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
STAT/B M I 541	Introduction to Biostatistics	3
<b>Code</b>		
<b>Title</b>		
<b>Credits</b>		
<b>General Chemistry</b>		
Select one of the following:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
<b>Code</b>		
<b>Title</b>		
<b>Credits</b>		
<b>Organic Chemistry</b>		
Select ALL of the following:		

CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3

Code	Title	Credits
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**Biology Foundation**

Select one of the following:

BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	10
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BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Organismal Biology <sup>1</sup>	13
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BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BIOLOGY/ BOTANY 130	Animal Biology and Animal Biology Laboratory and General Botany	10
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<sup>1</sup> BIOLOGY/BOTANY/ZOOLOGY 151/BIOLOGY/  
BOTANY/ZOOLOGY 152 or  
BIOCORE 381/BIOCORE 382/BIOCORE 383/BIOCORE 384/BIOCORE 485  
are recommended.

Code	Title	Credits
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**Physics**

Select one of the following:

PHYSICS 103 & PHYSICS 104	General Physics and General Physics	8
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PHYSICS 207 & PHYSICS 208	General Physics and General Physics	10
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PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10
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Code	Title	Credits
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**Biochemistry**

Select one of the following:

BIOCHEM 501	Introduction to Biochemistry	3
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BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	6
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Code	Title	Credits
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**Microbiology Courses***Microbiology Core (all required):*

Except where noted, all Microbiology Core courses are  
offered every fall and spring semester.

MICROBIO 303	Biology of Microorganisms	3
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MICROBIO 304	Biology of Microorganisms Laboratory	2
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MICROBIO 305	Critical Analyses in Microbiology	1
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MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
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MICROBIO 470	Microbial Genetics & Molecular Machines	3
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MICROBIO 526	Physiology of Microorganisms	3
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MICROBIO 527	Advanced Laboratory Techniques in Microbiology (Note: fall only)	2
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*Microbiology Capstone (required):*

MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory (Note: spring only)	2
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*Microbiology Electives:*

Select at least 6 credits; at least 3 credits must come  
from Set A. Note that not all elective courses are  
offered every semester.

Set A:

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	2
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MICROBIO/ FOOD SCI 325	Food Microbiology	3
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MICROBIO 330	Host-Parasite Interactions	3
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MICROBIO 375	Special Topics (topics and pre- requisites vary by semester)	1-4
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MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
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MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
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MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)	1
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MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
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MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
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MICROBIO 632	Industrial Microbiology/ Biotechnology	2
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MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
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MICROBIO/BOTANY/ GENETICS/M M & I/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3
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Set B:

BIOCHEM/ M M & I 575	Biology of Viruses	2
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BIOCHEM 601	Protein and Enzyme Structure and Function	2
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BOTANY 330	Algae	3
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BOTANY/ PL PATH 332	Fungi	4
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BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
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CHEM 565	Biophysical Chemistry	4
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COMP SCI/B M I 576	Introduction to Bioinformatics	3
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F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
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M M & I 301	Pathogenic Bacteriology	2
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M M & I 341	Immunology	3
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M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
M M & I 410	Medical Mycology	2
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
M M & I/ BIOCHEM 575	Biology of Viruses	2
M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3

## L&S RESIDENCE AND QUALITY OF WORK

2.000 GPA in all MICROBIO courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>

15 credits of MICROBIO or courses counting toward the major, taken on campus

<sup>1</sup> MICROBIO 300 through 699 count as upper level in the major, excluding MICROBIO 303 and MICROBIO 304. Intermediate- and advanced-level courses outside of MICROBIO that count for the major are also considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Microbiology Major in consultation with the Microbiology undergraduate advisor.

## HONORS IN THE MICROBIOLOGY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Microbiology students must satisfy both the requirements for the major (above) and the following requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all MICROBIO courses, and all courses accepted in the major
- Complete 15 credits, taken for Honors, with individual grades of B or better. 6 credits must come from a two-semester Senior Honors Thesis in MICROBIO 681 Senior Honors Thesis and MICROBIO 682 Senior Honors Thesis. Select remaining courses from the following list:

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3

MICROBIO/M M & I/ PATH-BIO 528	Immunology	3
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
MICROBIO/ FOOD SCI 650	Advanced Microbiology of Foodborne Pathogens	3
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology.
2. Students will apply the scientific method to questions. They will formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
3. Students will demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving.
4. Students will be able to access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
5. Students will learn about and demonstrate personal and professional ethics.



## ADVISING AND CAREERS

Current UW–Madison students can schedule initial advising (<https://calendar.wisc.edu/scheduling-assistant/schedule/RAUHTzYt/view.html>) in the microbiology major with Katy France.

Prospective/future UW–Madison students should email ([katy.france@wisc.edu](mailto:katy.france@wisc.edu)) Katy France to set up an appointment, which can be conducted in person or via phone call.

Read about and explore possible microbiology careers at the American Society for Microbiology (<https://www.asm.org/index.php/learn-about-careers>) website.

Learn more about health-related careers through the ExploreHealthCareers.org (<https://explorehealthcareers.org>) website.

## PEOPLE

Professors Charles Kaspar (chair), Jean-Michel Ané, Cameron Currie, Timothy Donohue, Marcin Filutowicz, Katrina Forest, Richard Gourse, Eric Johnson, John Mansfield, Katherine "Trina" McMahon, Michael Thomas, Karen Wassarman, and Jae-Hyuk Yu

Associate Professor Jue "Jade" Wang

Assistant Professors Daniel Amador-Noguez, Briana Burton, Federico Rey, Garret Suen, and Kalin Vetsigian

## BIOCHEMISTRY

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## DEGREES/MAJORS/CERTIFICATES

- Biochemistry, B.A. (L&S) (p. 449)
- Biochemistry, B.S. (L&S) (p. 458)

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Ansari, Aseem  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Clagett-Dame, Margaret  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Hayes, Colleen  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Markley, John  
 Martin, Tom  
 Mitchell, Julie  
 Ntambi, James  
 Palmenberg, Ann  
 Pike, Wes  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Sussman, Mike  
 Weibel, Doug  
 Wickens, Marv

### ASSOCIATE PROFESSORS

Henzler-Wildman, Katie  
 Pagliarini, Dave  
 Senes, Alessandro

### ASSISTANT PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan  
 Romero, Phil  
 Venturelli, Ophelia  
 Wildonger, Jill

### ASSOCIATE FACULTY ASSOCIATE

Prost, Lynne

### UNDERGRADUATE ADVISOR

Gurnee, Kendra

## BIOCHEMISTRY, B.A. (L&S)

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding

disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

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## HOW TO GET IN

Students who have completed a semester or more on campus must have a 2.5 previous semester GPA in order to declare or transfer into the major. Students may declare the major via an appointment with the undergraduate advisor.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CAL S) have the option to declare Biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies. The biochemistry major is offered through either CAL S or the College of Letters & Science (L&S). Students interested in the differences or transferring between CAL S and L&S should meet with the advisor to discuss this in more detail. Students in other schools/colleges (Business, Education, Engineering, etc.) may add biochemistry as an additional major with permission of their home school/college.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPAs	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS

Code	Title	Credits
Select one of the following options:		
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	9
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	14
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	10

## CHEMISTRY

### General Chemistry

Code	Title	Credits
Select one of the following options:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Organic Chemistry

Code	Title	Credits
Select ALL of the following courses:		
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

### Analytical Chemistry

Code	Title	Credits
Select one of the following options:		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4

CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10
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### Physical Chemistry

Code	Title	Credits
Must complete 4 credits of physical chemistry. Select one of the following options:		
CHEM 565	Biophysical Chemistry (recommended)	4
CHEM 561 & CHEM 563	Physical Chemistry and Physical Chemistry Laboratory	4-5

## BIOLOGY

Students must complete either Option A (introductory + upper-level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

### Option A (Introductory + Upper-Level Biology)

#### Option A Introductory Biology

Code	Title	Credits
Select one of the following introductory biology options:		
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	10
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	10

#### AND Option A Upper-Level Biology

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits—more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the course list below. To see courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program)).

**Important:** Biochemistry courses on this list can count only for "upper-level biology" if they are above-and-beyond what is needed to fulfill the "biochemistry" portion of the major. For example, if students have taken BIOCHEM 501, they will need one upper-level biochemistry elective to fulfill the biochemistry requirement, and then any additional biochemistry courses taken can count for upper-level biology. A course may not double count in both the "upper-level biology" and the "biochemistry" requirements for the major.

Code	Title	Credits
ANATOMY/ KINES 328	Human Anatomy	3

ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4	AN SCI 415	Application of Monogastric Nutrition Principles	2
ANATOMY/B M E/ CHEM/MED PHYS/ PHMCOL-M/ PHYSICS/ RADIOL 619	Microscopy of Life	3	AN SCI 430	Sheep Production	3
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course	4	AN SCI 431	Beef Cattle Production	3
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3	AN SCI 432	Swine Production	3
ANATOMY 637	Functional Neuroanatomy	3	AN SCI/DY SCI 434	Reproductive Physiology	3
ANATOMY/ AN SCI 660	Electron Microscopy: Theory & Practice	3	AN SCI/DY SCI/ ENVIR ST/ SOIL SCI 468	Managing the Environmental Impacts of Livestock Operations	2
AGRONOMY 300	Cropping Systems	3	AN SCI 503	Avian Physiology	3
AGRONOMY 302	Forage Management and Utilization	3	AN SCI 508	Poultry Products Technology	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3	AN SCI 511	Breeder Flock and Hatchery Management	3
AGRONOMY/ HORT 328	Integrated Weed Management	4	AN SCI 512	Management for Avian Health	3
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3	AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4	AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	4	AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
AGRONOMY/ A A E/INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3	AN SCI/ NUTR SCI 626	Experimental Diet Design	1
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3	AN SCI/ ANATOMY 660	Electron Microscopy: Theory & Practice	3
AGRONOMY 377	Cropping Systems of the Tropics	3	BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3	BIOCHEM 550	Topics in Medical Biochemistry	2
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3	BIOCHEM/ M M & I 575	Biology of Viruses	2
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4	BIOCHEM 601	Protein and Enzyme Structure and Function	2
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3	BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1	BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3
AN SCI 314	Poultry Nutrition	3	BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
AN SCI/DY SCI 320	Animal Health and Disease Management	3	BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2	BIOCHEM/ BOTANY 621	Plant Biochemistry	3
AN SCI/DY SCI 362	Veterinary Genetics	2	BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2	BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3	BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3
AN SCI/DY SCI 414	Ruminant Nutrition	2	BSE 349	Quantitative Techniques for Biological Systems	3
			BSE 364	Engineering Properties of Food and Biological Materials	3

BSE 365	Measurements and Instrumentation for Biological Systems	3	BOTANY/GENETICS/ M M & I/MICROBIO/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3-4
BSE/ENVIR ST 367	Renewable Energy Systems	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE 461	Food and Bioprocessing Operations	3	DY SCI 305	Lactation Physiology	3
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	DY SCI 535	Dairy Farm Management Practicum	3
BSE/FOOD SCI 542	Food Engineering Operations	4	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
BSE/FOOD SCI 642	Food and Pharmaceutical Separations	2-3	ENTOM 321	Physiology of Insects	3
BMOLCHEM 504	Human Biochemistry Laboratory	2	ENTOM 331	Taxonomy of Mature Insects	4
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM 342	Insect Ecology	3
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM 351	Principles of Economic Entomology	3
B M I/COMP SCI 576	Introduction to Bioinformatics	3	ENTOM/ ZOOLOGY 371	Medical Entomology	3
BOTANY 300	Plant Anatomy	4	ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
BOTANY 305	Plant Morphology and Evolution	4	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY 330	Algae	3	ENTOM/ ZOOLOGY 530	Insect Behavior	3
BOTANY/ PL PATH 332	Fungi	4	ENTOM/ ZOOLOGY 540	Theoretical Ecology	3
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4	ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
BOTANY 400	Plant Systematics	4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BOTANY 401	Vascular Flora of Wisconsin	4	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
BOTANY/ F&W ECOL 402	Dendrology	2	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
BOTANY 422	Plant Geography	3	ENVIR ST/ ATM OCN 520	Bioclimatology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4	ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4	FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3	FOOD SCI/ MICROBIO 325	Food Microbiology	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4	FOOD SCI 410	Food Chemistry	3
BOTANY 500	Plant Physiology	3-4	FOOD SCI 440	Principles of Food Engineering	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3	FOOD SCI 511	Chemistry and Technology of Dairy Products	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3	FOOD SCI 512	Principles of Food Chemistry-Lab	2
BOTANY 563	Phylogenetic Analysis of Molecular Data	3	FOOD SCI 514	Integrated Food Functionality	4
BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3	FOOD SCI 550	Fermented Foods and Beverages	2
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3	FOOD SCI 610	Food Proteins	2
BOTANY/GENETICS/ ZOOLOGY 645	Modeling in Population Genetics and Evolution	3	FOOD SCI 611	Chemistry and Technology of Dairy Products	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3	FOOD SCI/ MICROBIO 650	Advanced Microbiology of Foodborne Pathogens	3
			F&W ECOL 300	Forest Biometry	4

F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I/PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory	2
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	M M & I 410	Medical Mycology	2
F&W ECOL 318	Principles of Wildlife Ecology	3	M M & I 412	Medical Mycology Laboratory	1
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	M M & I 460	Techniques in DNA Science for Microbiologists	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
F&W ECOL 379	Principles of Wildlife Management	3	M M & I/PATH- BIO 529	Immunology Laboratory	2
F&W ECOL 401	Physiological Animal Ecology	3	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL 404	Wildlife Damage Management	3	M M & I 555	Vaccines: Practical Issues for a Global Society	3
F&W ECOL 410	Principles of Silviculture	3	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL 415	Tree Physiology	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 550	Forest Ecology	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL 561	Wildlife Management Techniques	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
F&W ECOL 590	Integrated Resource Management	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL 635	Forest Stand Dynamics	1-2	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
F&W ECOL 655	Animal Population Dynamics	3	MICROBIO 526	Physiology of Microorganisms	3
GENETICS 466	Principles of Genetics	3	MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
GENETICS 467	General Genetics 1	3	MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory	2
GENETICS 468	General Genetics 2	3	MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3
GENETICS 545	Genetics Laboratory	2	MICROBIO 625	Advanced Microbial Physiology	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3	MICROBIO 632	Industrial Microbiology/ Biotechnology	2
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2	MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
GENETICS/ MD GENET 565	Human Genetics	3	NUTR SCI 332	Human Nutritional Needs	3
GENETICS 566	Advanced Genetics	3	NUTR SCI 431	Nutrition in the Life Span	3
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3	NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3
GENETICS/ AN SCI 610	Quantitative Genetics	3	ONCOLOGY 401	Introduction to Experimental Oncology	2
HORT 320	Environment of Horticultural Plants	3	ONCOLOGY/ M&ENVTOX/ MEDICINE/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
HORT 410	Undergraduate Seminar	1	PHM SCI 310	Drugs and Their Actions	2
HORT/ AGRONOMY 501	Principles of Plant Breeding	3	PHM SCI 401	Survey of Pharmacology	3
MD GENET/ PEDIAT 646	Cancer Genetics Risk Assessment and Counseling	2	PHM SCI/B M E 430	Biological Interactions with Materials	3
M M & I 301	Pathogenic Bacteriology	2			
M M & I 302	Medical Microbiology Laboratory	3			
M M & I 341	Immunology	3			
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3			

PHYSIOL 335	Physiology	5
PHYSIOL 435	Fundamentals of Human Physiology	5
PHYSIOL 533	Molecular Physiology	2
PHYSIOL/NTP/ PHMCO-M 610	Cellular and Molecular Neuroscience	4
PHYSIOL/NTP 629	Molecular and Cellular Mechanisms of Memory	3
PL PATH 300	Introduction to Plant Pathology	4
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
PL PATH 558	Biology of Plant Pathogens	3
PL PATH 559	Diseases of Economic Plants	3
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3
PSYCH 454	Behavioral Neuroscience	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
SOIL SCI/CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
ZOOLOGY 535	Ecosystem Analysis	3
ZOOLOGY/ GEOSCI 541	Paleobiology	3
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3
ZOOLOGY/ PSYCH 550	Animal Communication and the Origins of Language	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 603	Endocrinology	3-4

ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2
ZOOLOGY/ANTHRO/ NTP/PSYCH 619	Biology of Mind	3
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY/NTP 635	Neurobiology of Disease	2

### Option B (Biocore)

Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply to and be accepted to the program to take Biocore classes.

Code	Title	Credits
Select ALL of the following lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Organismal Biology	3
BIOCORE 587	Biological Interactions	3
AND, select two of the following lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
BIOCORE 384	Cellular Biology Laboratory	2
BIOCORE 486	Organismal Biology Laboratory	2

### PHYSICS (CALCULUS-BASED)

Code	Title	Credits
Select one of the following options (students should consult with advisor if they have credit for PHYSICS 103 and/or 104 to discuss options):		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

### BIOCHEMISTRY

One set of introductory coursework **and** the capstone course are required, for a total of **three** BIOCHEM courses.

#### Introductory Courses

Code	Title	Credits
Select one of the following options:		
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6

#### OR

BIOCHEM 501	Introduction to Biochemistry	3
AND one of the following upper-level biochemistry electives:		
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	
BIOCHEM 550	Topics in Medical Biochemistry	

BIOCHEM/ M M & I 575	Biology of Viruses
BIOCHEM 601	Protein and Enzyme Structure and Function
BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology
BIOCHEM/ BOTANY 621	Plant Biochemistry
BIOCHEM 625	Coenzymes and Cofactors in Enzymology
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease

**Capstone Course (required)**

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4

**RESIDENCE AND QUALITY OF WORK REQUIREMENTS (AT TIME OF GRADUATION)**

- 2.000 GPA in all BIOCHEM and major courses
- 2.000 GPA in at least 15 upper-level major credits in residence (credits taken on campus at UW–Madison or UW–Madison-sponsored study abroad programs). Upper-level major credits are defined as coursework higher than the 300 level that could fulfill major requirements.
- 15 credits in the major/BIOCHEM taken on campus

**RECOMMENDED COURSES**

First-year students interested in exploring the major can enroll in Biochemistry Freshman Seminar (BIOCHEM 100). Additional courses in MATH, BIOLOGY, CHEM, BIOCHEM, STAT, and COMP SCI are common elective courses, depending on the student's areas of interest and future career goals.

**HONORS IN THE MAJOR**

Students may declare Honors in the Biochemistry Major in consultation with the Biochemistry undergraduate advisor. To be admitted to the Honors Program in Biochemistry, students must have declared a major in Biochemistry and achieved a 3.300 overall university GPA.

**HONORS IN THE BIOCHEMISTRY MAJOR REQUIREMENTS**

To earn a B.A. or a B.S. with Honors in the Major in Biochemistry students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 overall university GPA
- 3.300 GPA in courses designated as biological, physical, or natural science breadth
- Complete two biological science courses for Honors chosen from the list of courses (below) that can fulfill the biological science requirements for the major (introductory biology, upper-level biology, or Biocore)
- Complete **BIOCHEM 507 General Biochemistry I** and **BIOCHEM 508 General Biochemistry II** for Honors. This is in addition to the biological and physical science Honors requirements above.
- Complete a two-semester Senior Honors Thesis in BIOCHEM 681 Senior Honors Thesis and BIOCHEM 682 Senior Honors Thesis, for a total of 6 credits. Students seeking to complete this requirement in a related department, such as chemistry, must seek approval from the undergraduate biochemistry advisor.
- Complete at least 20 credits, taken for Honors, from the following list:

**Math**

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

**Chemistry**

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory	1

**Physics**

Code	Title	Credits
PHYSICS 201	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5



PHYSICS 249 A Modern Introduction to Physics 4

### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Identify the fundamental biochemical principles that underlie all biological processes.
2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.
3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.
5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, Kendra Gurnee, use the Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/XkmJSxnp.html>).
- Email ([kgurnee@wisc.edu](mailto:kgurnee@wisc.edu)) Kendra Gurnee with brief questions.
- Drop-in advising hours for quick (10-15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advising-information-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advising-information-undergraduate-program)) each semester.

## CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.
- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Ansari, Aseem  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Clagett-Dame, Margaret  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Hayes, Colleen  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Markley, John  
 Martin, Tom  
 Mitchell, Julie  
 Ntambi, James  
 Palmenberg, Ann  
 Pike, Wes  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Sussman, Mike  
 Weibel, Doug  
 Wickens, Marv

### ASSOCIATE PROFESSORS

Henzler-Wildman, Katie  
 Pagliarini, Dave  
 Senes, Alessandro

### ASSISTANT PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan  
 Romero, Phil  
 Venturelli, Ophelia

Wildonger, Jill

## ASSOCIATE FACULTY ASSOCIATE

Prost, Lynne

## UNDERGRADUATE ADVISOR

Gurnee, Kendra

### WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW-Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page ([https://www.studyabroad.wisc.edu/map\\_biochem.asp](https://www.studyabroad.wisc.edu/map_biochem.asp)) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program)) and the advisor can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## BIOCHEMISTRY, B.S. (L&S)

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school

admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

### HOW TO GET IN

Students who have completed a semester or more on campus must have a 2.5 previous semester GPA in order to declare or transfer into the major. Students may declare the major via an appointment with the undergraduate advisor.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CALs) have the option to declare Biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies. The biochemistry major is offered through either CALs or the College of Letters & Science (L&S). Students interested in the differences or transferring between CALs and L&S should meet with the advisor to discuss this in more detail. Students in other schools/colleges (Business, Education, Engineering, etc.) may add biochemistry as an additional major with permission of their home school/college.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of

arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

**Foreign Language** Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall  
30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW-Madison  
2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

### MATHEMATICS

Code	Title	Credits
Select one of the following options:		
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	9
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	14
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	10

## CHEMISTRY

### General Chemistry

Code	Title	Credits
Select one of the following options:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Organic Chemistry

Code	Title	Credits
Select ALL of the following courses:		
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

### Analytical Chemistry

Code	Title	Credits
Select one of the following options:		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Physical Chemistry

Code	Title	Credits
Must complete 4 credits of physical chemistry. Select one of the following options:		
CHEM 565	Biophysical Chemistry (recommended)	4
CHEM 561 & CHEM 563	Physical Chemistry and Physical Chemistry Laboratory	4-5

## BIOLOGY

Students must complete either Option A (introductory + upper-level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

### Option A (Introductory + Upper-Level Biology) Option A Introductory Biology

Code	Title	Credits
Select one of the following introductory biology options:		
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	10

BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	10
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**AND Option A Upper-Level Biology**

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits—more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the course list below. To see courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program)).

**Important:** Biochemistry courses on this list can count only for "upper-level biology" if they are above-and-beyond what is needed to fulfill the "biochemistry" portion of the major. For example, if students have taken BIOCHEM 501, they will need one upper-level biochemistry elective to fulfill the biochemistry requirement, and then any additional biochemistry courses taken can count for upper-level biology. A course may not double count in both the "upper-level biology" and the "biochemistry" requirements for the major.

Code	Title	Credits
ANATOMY/ KINES 328	Human Anatomy	3
ANATOMY/ NTP/PHMCO- L-M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/B M E/ CHEM/MED PHYS/ PHMCO- L-M/ PHYSICS/ RADIOL 619	Microscopy of Life	3
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
ANATOMY 637	Functional Neuroanatomy	3
ANATOMY/ AN SCI 660	Electron Microscopy: Theory & Practice	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
AGRONOMY/ HORT 328	Integrated Weed Management	4
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	4

AGRONOMY/ A A E/INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI 314	Poultry Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
AN SCI/DY SCI 414	Ruminant Nutrition	2
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 430	Sheep Production	3
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI/DY SCI/ ENVR ST/ SOIL SCI 468	Managing the Environmental Impacts of Livestock Operations	2
AN SCI 503	Avian Physiology	3
AN SCI 508	Poultry Products Technology	3
AN SCI 511	Breeder Flock and Hatchery Management	3
AN SCI 512	Management for Avian Health	3
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
AN SCI/ NUTR SCI 626	Experimental Diet Design	1
AN SCI/ ANATOMY 660	Electron Microscopy: Theory & Practice	3
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
BIOCHEM 550	Topics in Medical Biochemistry	2
BIOCHEM/ M M & I 575	Biology of Viruses	2

BIOCHEM 601	Protein and Enzyme Structure and Function	2	BOTANY 422	Plant Geography	3
BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology	3	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3	BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3	BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3	BOTANY 500	Plant Physiology	3-4
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2	BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3	BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3	BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BSE 349	Quantitative Techniques for Biological Systems	3	BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3
BSE 364	Engineering Properties of Food and Biological Materials	3	BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
BSE 365	Measurements and Instrumentation for Biological Systems	3	BOTANY/GENETICS/ ZOOLOGY 645	Modeling in Population Genetics and Evolution	3
BSE/ENVIR ST 367	Renewable Energy Systems	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	BOTANY/GENETICS/ M M & I/MICROBIO/ PL PATH 655	Biology and Genetics of Filamentous Fungi	3-4
BSE 461	Food and Bioprocessing Operations	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE/FOOD SCI 542	Food Engineering Operations	4	DY SCI 305	Lactation Physiology	3
BSE/FOOD SCI 642	Food and Pharmaceutical Separations	2-3	DY SCI 535	Dairy Farm Management Practicum	3
BMOLCHEM 504	Human Biochemistry Laboratory	2	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM 321	Physiology of Insects	3
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM 331	Taxonomy of Mature Insects	4
B M I/COMP SCI 576	Introduction to Bioinformatics	3	ENTOM 342	Insect Ecology	3
BOTANY 300	Plant Anatomy	4	ENTOM 351	Principles of Economic Entomology	3
BOTANY 305	Plant Morphology and Evolution	4	ENTOM/ ZOOLOGY 371	Medical Entomology	3
BOTANY 330	Algae	3	ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
BOTANY/ PL PATH 332	Fungi	4	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4	ENTOM/ ZOOLOGY 530	Insect Behavior	3
BOTANY 400	Plant Systematics	4	ENTOM/ ZOOLOGY 540	Theoretical Ecology	3
BOTANY 401	Vascular Flora of Wisconsin	4	ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
BOTANY/ F&W ECOL 402	Dendrology	2	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3

ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2
ENVIR ST/ ATM OCN 520	Bioclimatology	3	GENETICS/ MD GENET 565	Human Genetics	3
ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4	GENETICS 566	Advanced Genetics	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2	GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3
FOOD SCI/ MICROBIO 325	Food Microbiology	3	GENETICS/ AN SCI 610	Quantitative Genetics	3
FOOD SCI 410	Food Chemistry	3	HORT 320	Environment of Horticultural Plants	3
FOOD SCI 440	Principles of Food Engineering	3	HORT 410	Undergraduate Seminar	1
FOOD SCI 511	Chemistry and Technology of Dairy Products	3	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
FOOD SCI 512	Principles of Food Chemistry-Lab	2	MD GENET/ PEDIAT 646	Cancer Genetics Risk Assessment and Counseling	2
FOOD SCI 514	Integrated Food Functionality	4	M M & I 301	Pathogenic Bacteriology	2
FOOD SCI 550	Fermented Foods and Beverages	2	M M & I 302	Medical Microbiology Laboratory	3
FOOD SCI 610	Food Proteins	2	M M & I 341	Immunology	3
FOOD SCI 611	Chemistry and Technology of Dairy Products	3	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
FOOD SCI/ MICROBIO 650	Advanced Microbiology of Foodborne Pathogens	3	M M & I/PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory	2
F&W ECOL 300	Forest Biometry	4	M M & I 410	Medical Mycology	2
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I 412	Medical Mycology Laboratory	1
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	M M & I 460	Techniques in DNA Science for Microbiologists	3
F&W ECOL 318	Principles of Wildlife Ecology	3	M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	M M & I/PATH- BIO 529	Immunology Laboratory	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL 379	Principles of Wildlife Management	3	M M & I 555	Vaccines: Practical Issues for a Global Society	3
F&W ECOL 401	Physiological Animal Ecology	3	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL 404	Wildlife Damage Management	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL 410	Principles of Silviculture	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 415	Tree Physiology	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL 550	Forest Ecology	3	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
F&W ECOL 561	Wildlife Management Techniques	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
F&W ECOL 590	Integrated Resource Management	3	MICROBIO 526	Physiology of Microorganisms	3
F&W ECOL 635	Forest Stand Dynamics	1-2	MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
F&W ECOL 655	Animal Population Dynamics	3			
GENETICS 466	Principles of Genetics	3			
GENETICS 467	General Genetics 1	3			
GENETICS 468	General Genetics 2	3			
GENETICS 545	Genetics Laboratory	2			

MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory	2	ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
MICROBIO/ PL PATH 622	Plant-Bacterial Interactions	2-3	ZOOLOGY 470	Introduction to Animal Development	3
MICROBIO 625	Advanced Microbial Physiology	3	ZOOLOGY 504	Modeling Animal Landscapes	3-5
MICROBIO 632	Industrial Microbiology/ Biotechnology	2	ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3	ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2
NUTR SCI 332	Human Nutritional Needs	3	ZOOLOGY/ PSYCH 523	Neurobiology	3
NUTR SCI 431	Nutrition in the Life Span	3	ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3	ZOOLOGY 535	Ecosystem Analysis	3
ONCOLOGY 401	Introduction to Experimental Oncology	2	ZOOLOGY/ GEOSCI 541	Paleobiology	3
ONCOLOGY/ M&ENVTOX/ MEDICINE/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3	ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3
PHM SCI 310	Drugs and Their Actions	2	ZOOLOGY/ PSYCH 550	Animal Communication and the Origins of Language	3
PHM SCI 401	Survey of Pharmacology	3	ZOOLOGY 555	Laboratory in Developmental Biology	3
PHM SCI/B M E 430	Biological Interactions with Materials	3	ZOOLOGY 570	Cell Biology	3
PHYSIOL 335	Physiology	5	ZOOLOGY 603	Endocrinology	3-4
PHYSIOL 435	Fundamentals of Human Physiology	5	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
PHYSIOL 533	Molecular Physiology	2	ZOOLOGY 612	Comparative Physiology Laboratory	2
PHYSIOL/NTP/ PHMCOL-M 610	Cellular and Molecular Neuroscience	4	ZOOLOGY/ANTHRO/ NTP/PSYCH 619	Biology of Mind	3
PHYSIOL/NTP 629	Molecular and Cellular Mechanisms of Memory	3	ZOOLOGY 625	Development of the Nervous System	2
PL PATH 300	Introduction to Plant Pathology	4	ZOOLOGY/NTP 635	Neurobiology of Disease	2
PL PATH/ SOIL SCI 323	Soil Biology	3			
PL PATH 517	Plant Disease Resistance	2-3			
PL PATH 558	Biology of Plant Pathogens	3			
PL PATH 559	Diseases of Economic Plants	3			
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3			
PSYCH 454	Behavioral Neuroscience	3			
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3			
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3			
SOIL SCI/CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3			
ZOOLOGY 300	Invertebrate Biology and Evolution	3			
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2			
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2			
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3			
ZOOLOGY 425	Behavioral Ecology	3			

### Option B (Biocore)

Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply to and be accepted to the program to take Biocore classes.

Code	Title	Credits
Select ALL of the following lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Organismal Biology	3
BIOCORE 587	Biological Interactions	3
AND, select two of the following lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
BIOCORE 384	Cellular Biology Laboratory	2
BIOCORE 486	Organismal Biology Laboratory	2

### PHYSICS (CALCULUS-BASED)

Code	Title	Credits
Select one of the following options (students should consult with advisor if they have credit for PHYSICS 103 and/or 104 to discuss options):		

PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

## BIOCHEMISTRY

One set of introductory coursework **and** the capstone course are required, for a total of **three** BIOCHEM courses.

### Introductory Courses

Code	Title	Credits
<b>Select one of the following options:</b>		
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6

### OR

BIOCHEM 501	Introduction to Biochemistry	3
AND one of the following upper-level biochemistry electives:		
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	
BIOCHEM 550	Topics in Medical Biochemistry	
BIOCHEM/ M M & I 575	Biology of Viruses	
BIOCHEM 601	Protein and Enzyme Structure and Function	
BIOCHEM/B M I/ BMOLCHEM/ MATH 606	Mathematical Methods for Structural Biology	
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
BIOCHEM/ BOTANY 621	Plant Biochemistry	
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	

### Capstone Course (required)

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4

## RESIDENCE AND QUALITY OF WORK REQUIREMENTS (AT TIME OF GRADUATION)

- 2.000 GPA in all BIOCHEM and major courses
- 2.000 GPA in at least 15 upper-level major credits in residence (credits taken on campus at UW–Madison or UW–Madison-sponsored

study abroad programs). Upper-level major credits are defined as coursework higher than the 300 level that could fulfill major requirements.

- 15 credits in the major/BIOCHEM taken on campus

## RECOMMENDED COURSES

First-year students interested in exploring the major can enroll in Biochemistry Freshman Seminar (BIOCHEM 100). Additional courses in MATH, BIOLOGY, CHEM, BIOCHEM, STAT, and COMP SCI are common elective courses, depending on the student's areas of interest and future career goals.

## HONORS IN THE MAJOR

Students may declare Honors in the Biochemistry Major in consultation with the Biochemistry undergraduate advisor. To be admitted to the Honors Program in Biochemistry, students must have declared a major in Biochemistry and achieved a 3.300 overall university GPA.

## HONORS IN THE BIOCHEMISTRY MAJOR REQUIREMENTS

To earn a B.A. or a B.S. with Honors in the Major in Biochemistry students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 overall university GPA
- 3.300 GPA in courses designated as biological, physical, or natural science breadth
- Complete two biological science courses for Honors chosen from the list of courses (below) that can fulfill the biological science requirements for the major (introductory biology, upper-level biology, or Biocore)
- Complete **BIOCHEM 507 General Biochemistry I** and **BIOCHEM 508 General Biochemistry II** for Honors. This is in addition to the biological and physical science Honors requirements above.
- Complete a two-semester Senior Honors Thesis in BIOCHEM 681 Senior Honors Thesis and BIOCHEM 682 Senior Honors Thesis, for a total of 6 credits. Students seeking to complete this requirement in a related department, such as chemistry, must seek approval from the undergraduate biochemistry advisor.
- Complete at least 20 credits, taken for Honors, from the following list:

### Math

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

### Chemistry

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5



CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Introductory Organic Chemistry	3
CHEM 345	Intermediate Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory	1

### Physics

Code	Title	Credits
PHYSICS 201	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5
PHYSICS 249	A Modern Introduction to Physics	4

### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Identify the fundamental biochemical principles that underlie all biological processes.

2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.
3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.
5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, Kendra Gurnee, use the Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/XkmJSxnp.html>).
- Email (kgurnee@wisc.edu) Kendra Gurnee with brief questions.
- Drop-in advising hours for quick (10-15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advising-information-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/advising-information-undergraduate-program)) each semester.

### CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.
- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Ansari, Aseem  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Clagett-Dame, Margaret  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Hayes, Colleen  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Markley, John  
 Martin, Tom

Mitchell, Julie  
 Ntambi, James  
 Palmenberg, Ann  
 Pike, Wes  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Sussman, Mike  
 Weibel, Doug  
 Wickens, Marv

## ASSOCIATE PROFESSORS

Henzler-Wildman, Katie  
 Pagliarini, Dave  
 Senes, Alessandro

## ASSISTANT PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan  
 Romero, Phil  
 Venturelli, Ophelia  
 Wildonger, Jill

## ASSOCIATE FACULTY ASSOCIATE

Prost, Lynne

## UNDERGRADUATE ADVISOR

Gurnee, Kendra

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW-Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page ([https://www.studyabroad.wisc.edu/map\\_biochem.asp](https://www.studyabroad.wisc.edu/map_biochem.asp)) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program)) and the advisor can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## BIOLOGY CORE CURRICULUM

### DEGREES/MAJORS/CERTIFICATES

- Biology Core Curriculum Honors, Certificate (p. 466)

## BIOLOGY CORE CURRICULUM HONORS, CERTIFICATE

Biology Core Curriculum (Biocore (<http://www.biocore.wisc.edu>)) is an undergraduate Honors biology program for students who are motivated to learn biology within a small community of students, peer mentors, and faculty instructors. The four-semester curriculum of lecture and laboratory courses provides an integrated foundation of knowledge and skills applicable to any area of bioscience.

Unique aspects of Biocore include:

- Small classes and high faculty–instructor contact
- Emphasis on research, problem solving, science reasoning, group learning, and communication
- Collaborative community of students and faculty
- Peer mentoring, outreach, and directed study opportunities
- Earn Biocore Honors certificate<sup>1</sup>

<sup>1</sup> *Biology Core Curriculum Honors certificate* is available to students within the College of Agricultural and Life Sciences, the College of Engineering, the School of Human Ecology, the College of Letters & Science, and the School of Pharmacy. Students in the School of Business, the School of Education, and the School of Nursing are welcome to benefit from enrollment in the Biocore courses, but they are ineligible to earn the certificate. Students earn Honors course credit for each Biocore course and are eligible to earn a certificate upon completion of all four lecture courses and two of three lab courses with a grade of B or higher in all BIOCORE (<http://guide.wisc.edu/courses/biocore>) courses and 3.33 cumulative GPA.

### Learning Goals:

Biocore is not a major but fulfills requirements (introductory to intermediate coursework, Honors, and Communication Part B) for a variety of biological science majors including those in the College of Agricultural and Life Sciences, College of Letters & Science, College of Engineering, and School of Pharmacy. See Biocore website and video (<http://www.biocore.wisc.edu/about>) to learn more.

*By the end of the Biocore, students will*

- **Reach for and achieve high standards:** 21st-century outcomes demand highly innovative, integrative, and excellence in all aspects of our work. As a Biocore community of students and instructors, we strive to challenge ourselves and meet these high standards of excellence, while providing support all along the way. Biocore students work hard to interact with concepts, ideas and the process of science to develop their own intellectual frameworks. Reaching for and achieving high standards for excellence in biology teaching and learning defines an honors mindset and the Biocore experience.

- **Actively engage in and practice group learning, collaboration and team work:** Learning and discovery is not a solitary task, but rather a social endeavor—with all students invested in a common goal, balanced with each student's individual and independent accountability. Research on learning has shown that working together in small groups is an effective way to learn and achieve together rather than in competition. Therefore, student achievement in Biocore courses is evaluated using a set scale rather than a curve. Through Biocore, students discover the power of group learning, appreciate the supportive learning community, and form friendships as they work in lab and lecture courses, in peer mentoring, in research and outreach experiences. In addition, small class size provides ample opportunity to get to know professors, develop mentor relationships, grow a professional network, and make this big university seem small.
- **Be able to apply science as a process:** The scientific process is a powerful method for discovery. Science has allowed us to understand an impressive amount, but its central tenet is that our models for how the world works are open to revision as new methods and information become available. Therefore, in Biocore, we focus on process —“how we know what we know,” which includes understanding foundation concepts, using primary literature and data to support ideas and provide rationale for investigations, solving problems, applying critical thinking to challenging questions, and using integrative and analytical thinking to come to conclusions based on evidence. Students develop high-level scientific and interpersonal communication skills by writing and speaking about their own research.
- **Have a learning mindset:** Biocore focuses on the process of learning and the development of life long learners. Education is often measured in grades, awards and accolades; however, these do not always equate to the process or qualities of learning. Development of a learning mindset starts with active engagement with the material and the learning community including fellow students, instructors and peer mentors. Along the way, students develop their own process of learning that requires repetition, reflection and revision on how and what they are learning. Biocore's small class size allows students to receive high quality and timely feedback on learning and to develop biology specific knowledge, skills and competencies over four semesters.

## HOW TO GET IN

Biocore is an application-based Honors program that starts in the fall. While any UW–Madison student can apply to Biocore, only students in the College of Agricultural and Life Sciences, the College of Engineering, the School of Human Ecology, the College of Letters & Science, and the School of Pharmacy will be eligible to have the certificate noted on their transcript.

Application options:

1. **Regular:** For all students who have completed the prerequisites and would like to begin Biocore sophomore year. Applications are available through the Biocore website (<http://www.biocore.wisc.edu/bioadmissions>). Regular application deadline is in early March prior to April registration; however, Biocore continues to accept applications right up to the start of classes (space permitting).

2. **Freshman:** for a small cohort (~10) of well-prepared students who meet the requirements and would like to begin Biocore in the freshman year (see website ([http://www.biocore.wisc.edu/bio\\_admissions\\_freshman](http://www.biocore.wisc.edu/bio_admissions_freshman))).

Most students apply during the spring of freshman year and begin fall of sophomore year. The regular deadline is mid-March; however, Biocore continues to accept applications up to the start of classes (space permitting). Contact the Biocore office for further information 608-265-2870.

## PREREQUISITES

Please inquire about course equivalents.

Code	Title	Credits
<b>Math</b>		
Select one of the following:		
MATH 217	Calculus with Algebra and Trigonometry II	5
MATH 221	Calculus and Analytic Geometry 1	5
<b>Introductory Chemistry</b>		
Select one of the following:		
CHEM 104	General Chemistry II	5
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
Total Credits		15

<sup>1</sup> Organic chemistry (CHEM 341 or CHEM 343) is not a prerequisite for the BIOCORE program; however, organic chemistry is a prerequisite for BIOCORE 383 Cellular Biology.

## REQUIREMENTS

Biology Core Curriculum Honors (Biocore) students must:

1. Complete all four BIOCORE lecture courses and two of three lab courses
2. Earn a 'B' grade or better in all BIOCORE courses
3. Complete degree with a cumulative GPA of 3.3 or higher

All BIOCORE courses are taken for honors credit.

Code	Title	Credits
<b>Complete the following lecture courses (in sequence):</b> <sup>1</sup>		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Organismal Biology	3
BIOCORE 587	Biological Interactions	3
<b>Complete two of the following lab courses (in any order):</b>		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	4
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	
Total Credits		16

<sup>1</sup> Students pursuing the Biology Core Curriculum Certificate should not take the following courses since most majors will not allow credit for both:  
 ZOOLOGY/BIOLOGY/BOTANY 151  
 ZOOLOGY/BIOLOGY/BOTANY 152

ZOOLOGY/BIOLOGY 101  
 ZOOLOGY/BIOLOGY 102  
 BOTANY/BIOLOGY 130  
 GENETICS 466  
 PHYSIOL 335

## LEARNING OUTCOMES

By the end of their Biocore Honors experience, students will:

1. Demonstrate a learning mindset and intellectual curiosity for biology
2. Demonstrate advanced level scientific reasoning and integration of biological concepts and processes – from molecules to the biosphere, across different forms of life, through space and time
3. Generate novel scientific questions, formulate hypotheses, carry out experiments, and make logical conclusions based on evidence
4. Demonstrate advanced scientific communication skills, oral and written, and the ability to translate their understanding to the broader community
5. Actively engage in and practice group learning, collaboration and teamwork
6. Reach for and achieve high standards in the quality of learning
7. Articulate the value of their Biocore Honors experience

## FOUR-YEAR PLAN

### EXAMPLE SEQUENCE OF BIOCORE COURSES AND RELATED COURSEWORK

Code	Title	Credits
<b>Prerequisite Coursework</b>		
MATH 221 or MATH 217	Calculus and Analytic Geometry I Calculus with Algebra and Trigonometry II	5
CHEM 104 or CHEM 109 or CHEM 115	General Chemistry II Advanced General Chemistry Chemical Principles I	5
<b>First Semester of Biocore Program</b>		
BIOCORE 381	Evolution, Ecology, and Genetics (previous or concurrent registration in CHEM 341 or 343)	3
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
CHEM 343 or CHEM 344 or CHEM 345	Introductory Organic Chemistry Introductory Organic Chemistry Laboratory Intermediate Organic Chemistry	2-3
<b>Second Semester of Biocore Program</b>		
BIOCORE 383	Cellular Biology	3
BIOCORE 384	Cellular Biology Laboratory	2
CHEM 344 or CHEM 345	Introductory Organic Chemistry Laboratory Intermediate Organic Chemistry	2-3
PHYSICS 207	General Physics	5
<b>Third Semester of Biocore Program</b>		
BIOCORE 485	Organismal Biology	3
BIOCORE 486	Organismal Biology Laboratory	2
BIOCHEM 501	Introduction to Biochemistry	3

or BIOCHEM 507	General Biochemistry I	
PHYSICS 208	General Physics	5
<b>Fourth Semester of Biocore Program</b>		
BIOCORE 587	Biological Interactions	3
BIOCHEM 508	General Biochemistry II	3-4

To earn the certificate in Biology Core Curriculum Honors, students need only complete two of three BIOCORE laboratory courses.

## ADVISING AND CAREERS

Some majors require students to complete the whole program but others do not. **Check with your major requirements and academic advisor.** Students who plan to study abroad during their junior year can plan to start Biocore as sophomores and complete coursework as seniors.

## PEOPLE

Biocore faculty instructors come from departments and colleges across campus (College of Letters & Science, College of Agriculture and Life Sciences, School of Medicine and Public Health, College of Engineering) and bring with them different perspectives and disciplinary expertise on a whole range of topics and scales of biological organization from molecules to ecosystems. The curriculum permits students to attain a relatively high level of sophistication with complete flexibility of choice for subsequent major specialization.

Jeff Hardin (director), Janet Batzli (associate director), Michelle Harris (faculty associate), Seth McGee (lab manager), Carol Borcharding (program manager)

Biocore Committee: Hardin (director), Batzli (associate director), Harris, Howell, Moser, O'Connor

### Affiliated Faculty

Elaine Alarid (Oncology, SMPH)

Bill Bement (Zoology, L&S)

Paul Bethke (Horticulture, CALS)

Erik Dent (Neuroscience, SMPH)

Irwin Goldman (Horticulture, CALS)

Anne Griep (Cell and Regenerative Biology, SMPH)

Jeff Hardin (Zoology, L&S)

Evelyn Howell (Landscape Architecture, CALS)

Stephen Johnson (Comparative Biosciences, VetMed)

Trina McMahon (Civil and Environmental Engineering, Engr)

Amy Moser (Oncology, SMPH)

Shelby O'Connor (Pathology, SMPH)

## WISCONSIN EXPERIENCE

The Biocore Experience is aligned with the Wisconsin Experience, supporting students' development of knowledge, intellectual skills and social responsibilities.

Biocore is an Honors biology program, a *community* and a *curriculum*, that challenges students to discover and reach their academic potential within a supportive biology education program. The Biocore honors community of highly motivated students work with dedicated faculty to extend opportunities for scientific research, communication, integrative learning and collaboration in the context of a four-semester undergraduate biology curriculum.

### Students say:

"Biocore has helped me **think about science in a completely different way.**"

"I have never been so challenged, nor so **excited about learning** as during my time in Biocore."

"Biocore taught me how to **think critically and how to question**. I learned to be part of a team and made some great friendships. "

"Taking Biocore made other **advanced courses in biology/ biochemistry/ genetics so much easier** because I gained such solid background knowledge."

"Biocore has been my most valuable academic experience yet. It has helped me develop my **scientific writing skills, ability to problem solve as a member of a team, and to think like a scientist.**"

"The **great staff and teaching teams** are excellent —they **really care** and invest a huge amount of time to benefit our learning."

See Biocore Experience video (<http://www.biocore.wisc.edu/about>) and alumni profiles (<http://www.biocore.wisc.edu/alumni>).

The Biocore curriculum provides an Honors experience in introductory to intermediate level integrated biology. Students experience small class sizes and a high instructor/student ratio all within a learning community of highly motivated and dedicated Honors students, faculty, staff and peers. Biocore courses emphasize problem-solving, critical thinking, research, scientific writing, group learning, and the process of science. In this collaborative and supportive learning community, students are also able to engage in peer mentoring ([http://www.biocore.wisc.edu/peer\\_mentors](http://www.biocore.wisc.edu/peer_mentors)), in directed study opportunities in the Biocore Prairie (<http://www.biocore.wisc.edu/prairie>), and in K-12 outreach through the Biocore Outreach Ambassadors (<http://www.biocore.wisc.edu/outreach>).

## BOTANY

The Department of Botany provides an introduction to the living world: the diversity of its organisms; its historical origins through evolution; its principles of structure, function, and ecology; and its interactions, relationships, and effects on the nonliving world. Botany is the science of plants, algae, fungi, and bacteria—all living organisms except animals. Green plants and algae provide the photosynthetic energy for fueling all

other life on earth and drive global water and carbon cycles. Fungi and bacteria are the fundamental recyclers of the earth.

The study of botany provides a broad background in the principles of modern biology and gives a solid foundation for careers in environmental studies, conservation biology, ecology, systematics, evolution, genetics, physiology, biotechnology, agriculture, and horticulture. Jobs requiring such preparation include teaching in secondary schools and colleges, research and development in industry and medicine, stewardship of our natural world through private and governmental programs, and research and teaching in academia.

Undergraduates interested in majoring in botany should take an introductory course or course sequence in their freshmen or sophomore years:

Code	Title	Credits
<b>Option A (strongly recommended)</b>		
BOTANY/ BIOLOGY 130	General Botany	5
With or without the following:		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	5
<b>Option B (also appropriate)</b>		
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5
<b>Option C (also appropriate)</b>		
Biology Core Curriculum		

The general undergraduate botany advisor will help guide students to a botany faculty member in their field of interest, who should be chosen as soon as possible—no later than the junior year. All botany faculty members serve as advisors for their special fields.

The department encourages undergraduates to participate in its activities. Volunteers are welcome in the herbarium and greenhouses. There are a few paid positions there and in many of the research laboratories as well.

## DEGREES/MAJORS/CERTIFICATES

- Botany, B.A. (p. 470)
- Botany, B.S. (p. 473)
- Conservation Biology, B.A. (p. 475)
- Conservation Biology, B.S. (p. 480)

## PEOPLE

Professors Ane, Baum, Cameron (chair), Emshwiller, Fernandez, Gilroy, Givnish, Graham, Hotchkiss, Larget, Otegui, Spalding, Sytsma, Waller

Associate Professor Pringle

Assistant Professors Keefover-Ring, Maeda, McCulloh

Majors will eventually choose from the faculty a Senior Thesis advisor, who then will be the student's undergraduate advisor. Prospective majors should contact the general advisors directly.

## BOTANY, B.A.

The Department of Botany provides an introduction to the living world: the diversity of its organisms; its historical origins through evolution; its principles of structure, function, and ecology; and its interactions, relationships, and effects on the nonliving world. Botany is the science of plants, algae, fungi, and bacteria—all living organisms except animals. Green plants and algae provide the photosynthetic energy for fueling all other life on earth and drive global water and carbon cycles. Fungi and bacteria are the fundamental recyclers of the earth.

The study of botany provides a broad background in the principles of modern biology and gives a solid foundation for careers in environmental studies, conservation biology, ecology, systematics, evolution, genetics, physiology, biotechnology, agriculture, and horticulture. Jobs requiring such preparation include teaching in secondary schools and colleges, research and development in industry and medicine, stewardship of our natural world through private and governmental programs, and research and teaching in academia.

## HOW TO GET IN

Prospective botany majors should consult with the general undergraduate botany advisor by the beginning of the junior year to outline a course of study appropriate to the student's needs. Major Declaration may occur by meeting with the undergraduate advisor in the major.

To be accepted as a major in botany, a student must have a grade point average of 2.5 for all science courses taken during the freshman and sophomore years.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY, AND PHYSICS

Code	Title	Credits
<b>Statistics/Mathematics</b>		<b>3</b>
STAT 301 or STAT 371	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry</b>		<b>5-9</b>
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	
<b>Organic Chemistry</b>		<b>3</b>
CHEM 341 or CHEM 343	Elementary Organic Chemistry Introductory Organic Chemistry	
<b>Physics</b>		<b>3-5</b>
PHYSICS 115	Energy (preferred)	
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 104	General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 202	General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 208	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
Total Credits		14-20

## BIOLOGY AND BOTANY REQUIREMENTS

30 credits from:

Code	Title	Credits
<b>Introductory Biology</b>		<b>5-10</b>
<i>Option A, Recommended</i>		
BOTANY/ BIOLOGY 130	General Botany	
<i>Option B: Introductory Biology</i>		
BOTANY/ BIOLOGY/ ZOOLOGY 151	Introductory Biology	

BOTANY/ BIOLOGY/ ZOOLOGY 152	Introductory Biology
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### *Option C: BIOCORE*

BIOCORE 381	Evolution, Ecology, and Genetics
BIOCORE 383	Cellular Biology
<i>and two of the following:</i>	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 486	Organismal Biology Laboratory

Code	Title	Credits
<b>Genetics</b>		<b>3</b>
GENETICS 466	Principles of Genetics	
BIOCORE 587	Biological Interactions	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	

Code	Title	Credits
<b>Botany Distribution—one course from four areas:</b>		<b>12</b>
<i>Plant Structure:</i>		
BOTANY 300	Plant Anatomy	
BOTANY 305	Plant Morphology and Evolution	

### *Ecology:*

BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology

### *Plant Physiology:*

BOTANY 500	Plant Physiology
BIOCORE 485 & BIOCORE 486	Organismal Biology and Organismal Biology Laboratory

### *Cryptogamic Botany:*

BOTANY 330	Algae
BOTANY/ PL PATH 332	Fungi
MICROBIO 303	Biology of Microorganisms

### *Systematics:*

BOTANY 400	Plant Systematics
BOTANY 401	Vascular Flora of Wisconsin
BOTANY 422	Plant Geography
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany

Code	Title	Credits
<b>Independent Research Experience—choose one:</b>		<b>2-6</b>
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	4
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	6
BOTANY 699	Directed Study	2-4

- <sup>1</sup> Students nearing completion of the major should seek out research opportunities with their advisor or faculty supervisor, and register for their project at the end of the junior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all BOTANY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in BOTANY, taken on the UW–Madison campus

- <sup>2</sup> BOTANY 300–699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Botany Major in consultation with the Botany undergraduate advisor.

### REQUIREMENTS

To earn the B.A. or B.S. degree with Honors in the Major in Botany, students must satisfy the requirements for the major and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA in all BOTANY and courses accepted in the major
- A Senior Honors Thesis in BOTANY 681 and BOTANY 682, for a total of 6 credits, and
- 12 credits in Intermediate/Advanced BOTANY, taken for Honors <sup>1</sup>  
<sup>1</sup> Excluding BOTANY 681 and BOTANY 682.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Acquire and demonstrate foundational understanding of the basic properties of plant life from the subcellular to the ecosystem level of organization.

2. Acquire and demonstrate basic understanding in chemistry, physics, and mathematics to interpret biological phenomena.
3. Acquire and demonstrate detailed knowledge in at least five of these core areas of plant biology: Genetics, Physiology, Structural biology, Ecology, Systematics, Evolution, Cryptogamic biology.
4. Explore these core areas in the context of the laboratory and/or the field.
5. Engage in plant biology research (to include algae, photosynthetic bacteria, and fungi): develop hypotheses, acquire scientific information, and interpret results in the context of the historical scientific literature in one or more specialized botanical subdisciplines.
6. Develop an appreciation of communicating scientific information, especially in written form.

## ADVISING AND CAREERS

### ADVISING

The Department of Botany encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)
- Career Advising is also available in the Botany Department: Botany Department Advising Page (<http://www.botany.wisc.edu/declaration-and-advising.htm>)

## PEOPLE

Professors Ane, Baum, Cameron (chair), Emshwiller, Fernandez, Gilroy, Givnish, Graham, Hotchkiss, Larget, Otegui, Spalding, Sytsma, Waller

Associate Professor Pringle

Assistant Professors Keefover-Ring, Maeda, McCulloh

Majors will eventually choose from the faculty a Senior Thesis advisor, who then will be the student's undergraduate advisor. Prospective majors should contact the general advisors directly.



## BOTANY, B.S.

The Department of Botany provides an introduction to the living world: the diversity of its organisms; its historical origins through evolution; its principles of structure, function, and ecology; and its interactions, relationships, and effects on the nonliving world. Botany is the science of plants, algae, fungi, and bacteria—all living organisms except animals. Green plants and algae provide the photosynthetic energy for fueling all other life on earth and drive global water and carbon cycles. Fungi and bacteria are the fundamental recyclers of the earth.

The study of botany provides a broad background in the principles of modern biology and gives a solid foundation for careers in environmental studies, conservation biology, ecology, systematics, evolution, genetics, physiology, biotechnology, agriculture, and horticulture. Jobs requiring such preparation include teaching in secondary schools and colleges, research and development in industry and medicine, stewardship of our natural world through private and governmental programs, and research and teaching in academia.

## HOW TO GET IN

Prospective botany majors should consult with the general undergraduate botany advisor by the beginning of the junior year to outline a course of study appropriate to the student's needs. Major Declaration may occur by meeting with the Undergraduate advisor in the major.

To be accepted as a major in botany, a student must have a grade point average of 2.5 for all science courses taken during the freshman and sophomore years.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY, AND PHYSICS

Code	Title	Credits
<b>Statistics/Mathematics</b> 3		
STAT 301 or STAT 371	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry</b> 5-9		
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	
<b>Organic Chemistry</b> 3		
CHEM 341 or CHEM 343	Elementary Organic Chemistry Introductory Organic Chemistry	
<b>Physics</b> 3-5		
PHYSICS 115	Energy (preferred)	
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 104	General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 202	General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 208	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
Total Credits		14-20

## BIOLOGY AND BOTANY REQUIREMENTS

30 credits from:

Code	Title	Credits
<b>Introductory Biology</b> 5-10		
<i>Option A, Recommended</i>		
BOTANY/ BIOLOGY 130	General Botany	
<i>Option B: Introductory Biology</i>		
BOTANY/ BIOLOGY/ ZOOLOGY 151	Introductory Biology	
BOTANY/ BIOLOGY/ ZOOLOGY 152	Introductory Biology	
<i>Option C: BIOCORE</i>		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	

and two of the following:

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Genetics</b> 3		
GENETICS 466	Principles of Genetics	
BIOCORE 587	Biological Interactions	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	

Code	Title	Credits
<b>Botany Distribution—one course from four areas:</b> 12		
<i>Plant Structure:</i>		
BOTANY 300	Plant Anatomy	
BOTANY 305	Plant Morphology and Evolution	
<i>Ecology:</i>		
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
<i>Plant Physiology:</i>		
BOTANY 500	Plant Physiology	
BIOCORE 485 & BIOCORE 486	Organismal Biology and Organismal Biology Laboratory	
<i>Cryptogamic Botany:</i>		
BOTANY 330	Algae	
BOTANY/ PL PATH 332	Fungi	
MICROBIO 303	Biology of Microorganisms	
<i>Systematics:</i>		
BOTANY 400	Plant Systematics	
BOTANY 401	Vascular Flora of Wisconsin	
BOTANY 422	Plant Geography	
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany	

Code	Title	Credits
<b>Independent Research Experience—choose one:</b> 2-6		
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	4
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	6
BOTANY 699	Directed Study	2-4

<sup>1</sup> Students nearing completion of the major should seek out research opportunities with their advisor or faculty supervisor, and register for their project at the end of the junior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all BOTANY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in BOTANY, taken on the UW–Madison campus

<sup>2</sup> BOTANY 300–699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Botany Major in consultation with the Botany undergraduate advisor.

### REQUIREMENTS

To earn the B.A. or B.S. degree with Honors in the Major in Botany, students must satisfy the requirements for the major and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA in all BOTANY and courses accepted in the major
- A Senior Honors Thesis in BOTANY 681 and BOTANY 682, for a total of 6 credits, and
- 12 credits in Intermediate/Advanced BOTANY, taken for Honors <sup>1</sup>  
<sup>1</sup> Excluding BOTANY 681 and BOTANY 682.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Acquire and demonstrate foundational understanding of the basic properties of plant life from the subcellular to the ecosystem level of organization.
2. >Acquire and demonstrate basic understanding in chemistry, physics, and mathematics to interpret biological phenomena.
3. Acquire and demonstrate detailed knowledge in at least five of these core areas of plant biology: Genetics, Physiology, Structural biology, Ecology, Systematics, Evolution, Cryptogamic biology.
4. Explore these core areas in the context of the laboratory and/or the field.

5. Engage in plant biology research (to include algae, photosynthetic bacteria, and fungi): develop hypotheses, acquire scientific information, and interpret results in the context of the historical scientific literature in one or more specialized botanical subdisciplines.
6. Develop an appreciation of communicating scientific information, especially in written form.

## ADVISING AND CAREERS

### ADVISING

The Department of Botany encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)
- Career Advising is also available in the Botany Department: Botany Department Advising Page (<http://www.botany.wisc.edu/declaration-and-advising.htm>)

## PEOPLE

Professors Ane, Baum, Cameron (chair), Emshwiller, Fernandez, Gilroy, Givnish, Graham, Hotchkiss, Larget, Otegui, Spalding, Sytsma, Waller

Associate Professor Pringle

Assistant Professors Keefover-Ring, Maeda, McCulloh

Majors will eventually choose from the faculty a Senior Thesis advisor, who then will be the student's undergraduate advisor. Prospective majors should contact the general advisors directly.

## CONSERVATION BIOLOGY, B.A.

Conservation biology is a science-based major designed to provide students broad training in biological, ecological, and related disciplines most relevant to conservation. The program emphasizes basic knowledge of natural history, whole organism biology, ecological interactions, and field biology. The major is characterized by flexibility with a broad range of opportunities allowing students to tailor the program to their interests.

This major appeals to independent students capable of assembling a curriculum that takes maximum advantage of both strong background, diversity, and specialization, as well as the breadth available through an L&S major. The program has a unique appeal to students passionate about conservation biology, from the social scientist to the theoretical ecologist, and empowers students to act as informed citizens of the natural world.

Aldo Leopold, former UW professor considered the father of wildlife management, and Norman Fassett, former UW professor of Botany, first initiated this major in the 1940s to prepare individuals for careers as game wardens, ranger naturalists, and museum workers. These opportunities continue and have expanded to include work in environmental education; forest, game and park management; endangered species research and recovery efforts; work with private conservation organizations and government agencies; and many more. The major is recommended for those seeking a liberal education in the intrinsic values of natural resources and those preparing for graduate study in the rapidly developing field of conservation biology.

## INTERNSHIP/FIELD EXPERIENCE

Students in the conservation biology major are encouraged to take field courses when possible (including suitable study abroad programs) and to gain additional experience via summer jobs and paid or unpaid internships. Students who wish to obtain academic credit for such an experience should arrange **in advance** to take a Directed Study (e.g., BOTANY 699 Directed Study or ZOOLOGY 699 Directed Studies in Zoology course) as elective work in the major during or immediately after their internship. A maximum of 10 credits of directed study (698, 699), senior honors thesis (681, 682), senior thesis (691,692), or internships (F&W ECOL 399 Coordinative Internship/Cooperative Education, ZOOLOGY 677 Internship in Ecology) will count toward the major.

## HOW TO GET IN

To declare the conservation biology major, students must contact or make an appointment (<http://conservationbiology.ls.wisc.edu/faqs.htm>) with the conservation biology student services coordinator.

If students are not currently in the College of Letters & Science (L&S), they must transfer into L&S before declaring. Students are welcome to meet with the conservation biology student services coordinator to discuss the major before transferring.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Conservation biology majors must take at least **50 credits** in the major.

When selecting courses to meet major requirements, students are encouraged to meet with their faculty advisor or student services coordinator to discuss courses that align with their areas of academic interest.

### INTRODUCTORY COURSES

Code	Title	Credits
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#### Introductory Biology

Select one of the following options:	10
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Option 1 (recommended):

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology
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BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology
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Option 2:

Select at least 10 credits from the following:

BIOCORE 381	Evolution, Ecology, and Genetics
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BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
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BIOCORE 383	Cellular Biology
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BIOCORE 384	Cellular Biology Laboratory
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BIOCORE 485	Organismal Biology
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BIOCORE 486	Organismal Biology Laboratory
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Option 3:

BIOLOGY/ ZOOLOGY 101	Animal Biology
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BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory
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BIOLOGY/ BOTANY 130	General Botany
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#### Chemistry

Select one of the following:	4-5
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CHEM 103	General Chemistry I
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CHEM 108	Chemistry in Our World
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CHEM 109	Advanced General Chemistry (for those who might take more chemistry)
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#### Physical Environment

Select one of the following:	3-5
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ATM OCN/GEOSCI 105	Survey of Oceanography
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ENVIR ST/GEOSCI 106	Environmental Geology
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ENVIR ST/ GEOG 120	Introduction to the Earth System
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ENVIR ST/ GEOG 127	Physical Systems of the Environment
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GEOSCI 100	General Geology
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GEOSCI 107	Life of the Past
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GEOSCI 202	Introduction to Geologic Structures
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GEOSCI 204	Geologic Evolution of the Earth
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#### Ecology and Evolution

Select two of the following, each from a different category (students are encouraged to take courses in all three areas):	6-7
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Ecology:

BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
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Evolution:

GEOSCI 110 or ANTHRO/ BOTANY/ ZOOLOGY 410	Evolution and Extinction Evolutionary Biology
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Extinction:

ENVIR ST/F&W ECOL/ZOOLOGY 360	Extinction of Species
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#### Statistics

Select one of the following:

STAT 371	Introductory Applied Statistics for the Life Sciences
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STAT 301	Introduction to Statistical Methods
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STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I
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## SPECIES & FIELD BIOLOGY

Code	Title	Credits
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12 credits from:

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
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ENTOM/ ZOOLOGY 371	Medical Entomology
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AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology
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AN SCI/ F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin
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ANTHRO 391	Bones for the Archaeologist
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ANTHRO 458	Primate Behavioral Ecology
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ANTHRO 668	Primate Conservation
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BOTANY 330	Algae
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BOTANY/ PL PATH 332	Fungi
BOTANY 400	Plant Systematics
BOTANY 401	Vascular Flora of Wisconsin
BOTANY/ F&W ECOL 402	Dendrology
BOTANY 403	Field Collections and Identification
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 331	Taxonomy of Mature Insects
ENTOM 342	Insect Ecology
ENTOM 432	Taxonomy and Bionomics of Immature Insects
ENTOM 468	Studies in Field Entomology
ENTOM/ ZOOLOGY 530	Insect Behavior
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources
ENVIR ST 375	Field Ecology Workshop
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 401	Physiological Animal Ecology
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
F&W ECOL 655	Animal Population Dynamics
GEOSCI 333	The Age of Dinosaurs
GEOSCI/ ZOOLOGY 541	Paleobiology
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology
HORT 370	World Vegetable Crops
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I/ PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory
PSYCH 449	Animal Behavior <sup>1</sup>
or ZOOLOGY 425	Behavioral Ecology
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources

ZOOLOGY 316 Laboratory for Limnology-  
Conservation of Aquatic Resources

ZOOLOGY 430 Comparative Anatomy of  
Vertebrates

<sup>1</sup> Students may apply both ZOOLOGY 425 Behavioral Ecology and  
PSYCH 449 Animal Behavior in the conservation biology program.

## ELECTIVES

Code	Title	Credits
<i>Social Science Electives</i>		
At least one 3 credit course from Social Science elective list:		
A A E 215	Introduction to Agricultural and Applied Economics	
A A E/ ENVIR ST 244	The Environment and the Global Economy	
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	
ECON 101	Principles of Microeconomics	
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	
ENVIR ST/ GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	
ENVIR ST/ GEOG 339	Environmental Conservation	
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
ENVIR ST/ PHILOS 441	Environmental Ethics	
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	
GEOG 344	The American West	
GEOG 359	Australia: Environment and Society	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	
<i>Electives to attain 50 credits in the major</i>		
AGRONOMY/ HORT 328	Integrated Weed Management	
AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	
AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	

AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems
ANTHRO 658	Ecological Models of Behavior
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ ENVIR ST/ GEOG 121	Atmospheric Environment and Society
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
BOTANY/ PL PATH 123	Plants, Parasites, and People
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology
BOTANY 300	Plant Anatomy
BOTANY 305	Plant Morphology and Evolution
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
ENTOM/ ZOOLOGY 540	Theoretical Ecology
ENTOM 699	Special Problems
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality
ENVIR ST/ LAND ARC 361	Wetlands Ecology
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ GEOG 537	Culture and Environment
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues

F&W ECOL 379	Principles of Wildlife Management
F&W ECOL 410	Principles of Silviculture
F&W ECOL 450	Communities and Forests
F&W ECOL 550	Forest Ecology
F&W ECOL 561	Wildlife Management Techniques
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL/HORT/ STAT 571	Statistical Methods for Bioscience I
F&W ECOL/ ENTOM/ M&ENVTOX/ PL PATH/ SOIL SCI 606	Colloquium in Environmental Toxicology
F&W ECOL 699	Special Problems
GENETICS 466	Principles of Genetics
GEOG/ GEOSCI 320	Geomorphology
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOSCI/G L E 627	Hydrogeology
LAND ARC 262	Landscape Inventory and Evaluation Methods
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
PSYCH 556	Hormones and Behavior
SOIL SCI 301	General Soil Science
STAT/F&W ECOL/ HORT 572	Statistical Methods for Bioscience II
ZOOLOGY 535	Ecosystem Analysis

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in the major, taken on the UW–Madison campus

<sup>1</sup> Courses in the major numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Conservation Biology Major in consultation with the Conservation Biology undergraduate advisor.

## HONORS IN THE CONSERVATION BIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Conservation Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete at least 16 credits, taken for Honors, in the conservation biology major, to include a two-semester Senior Honors Thesis in an appropriate department<sup>1</sup>

<sup>1</sup> Examples include Botany, Zoology, Environmental Studies; see the Conservation Biology advisor to verify that your thesis department will be acceptable.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Students will explain the basic concepts of ecology and evolution and how they underpin and apply to the science of conservation biology.
2. Students will understand and explain the scientific process as related to conservation biology, including the relevance of theories and how hypotheses are tested.
3. Students will recognize species within some particular group of organisms and explain key aspects of their ecology, phylogeny, and conservation needs.
4. Students will apply general ecological principles to assess and address conservation threats to particular species, communities, and ecosystems.
5. Students will investigate and communicate the connections between the biological and social sciences and humanities as they affect conservation programs and activities.
6. Students will identify, interpret, and communicate conservation ideas, needs and programs to others.

## ADVISING AND CAREERS

### ADVISING

Students in the conservation biology major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<http://conservationbiology.ls.wisc.edu/advising.htm>) for a list of advisors and for the student services coordinator information.

The faculty advisor provides guidance specific to the discipline through discussions about undergraduate experiences (e.g., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator

provides guidance specific to the discipline but helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress towards graduation, as well as connecting students with important resources on campus. **Because the major is so broad and involves so much choice, it is important for students to meet early and regularly with their student services coordinator and faculty advisor.**

Students contemplating graduate work in a biological discipline are advised to take the following:

Code	Title	Credits
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	

Although not required for the major, such students are also encouraged to take the following:

Code	Title	Credits
CHEM 104	General Chemistry II	
GENETICS 466	Principles of Genetics	
PHYSICS 103	General Physics	
PHYSICS 104	General Physics	
MATH 221	Calculus and Analytic Geometry I	

## PEOPLE

Committee of Advisors: Givnish (Botany), Hotchkiss (Botany/Environmental Studies), Ives (Zoology), Strier (Anthropology), Vander Zanden (Center for Limnology/Zoology), Waller (Botany, chair of major)

## CONSERVATION BIOLOGY, B.S.

Conservation biology is a science-based major designed to provide students broad training in biological, ecological, and related disciplines most relevant to conservation. The program emphasizes basic knowledge of natural history, whole organism biology, ecological interactions, and field biology. The major is characterized by flexibility with a broad range of opportunities allowing students to tailor the program to their interests. This major appeals to independent students capable of assembling a curriculum that takes maximum advantage of both strong background, diversity, and specialization, as well as the breadth available through an L&S major. The program has a unique appeal to students passionate about conservation biology, from the social scientist to the theoretical ecologist, and empowers students to act as informed citizens of the natural world.

Aldo Leopold, former UW professor considered the father of wildlife management, and Norman Fassett, former UW professor of Botany,



first initiated this major in the 1940s to prepare individuals for careers as game wardens, ranger naturalists, and museum workers. These opportunities continue and have expanded to include work in environmental education; forest, game and park management; endangered species research and recovery efforts; work with private conservation organizations and government agencies; and many more. The major is recommended for those seeking a liberal education in the intrinsic values of natural resources and those preparing for graduate study in the rapidly developing field of conservation biology.

## INTERNSHIP/FIELD EXPERIENCE

Students in the conservation biology major are encouraged to take field courses when possible (including suitable study abroad programs) and to gain additional experience via summer jobs and paid or unpaid internships. Students who wish to obtain academic credit for such an experience should arrange **in advance** to take a Directed Study (e.g., BOTANY 699 Directed Study or ZOOLOGY 699 Directed Studies in Zoology course) as elective work in the major during or immediately after their internship. A maximum of 10 credits of directed study (698, 699), senior honors thesis (681, 682), senior thesis (691,692), or internships (F&W ECOL 399 Coordinative Internship/Cooperative Education, ZOOLOGY 677 Internship in Ecology) will count toward the major.

## HOW TO GET IN

To declare the conservation biology major, students must contact or make an appointment (<http://conservationbiology.ls.wisc.edu/faqs.htm>) with the conservation biology student services coordinator.

If students are not currently in the College of Letters & Science (L&S), they must transfer into L&S before declaring. Students are welcome to meet with the conservation biology student services coordinator to discuss the major before transferring.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
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Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Conservation biology majors must take at least **50 credits** in the major.

When selecting courses to meet major requirements, students are encouraged to meet with their faculty advisor or student services coordinator to discuss courses that align with their areas of academic interest.

### INTRODUCTORY COURSES

Code	Title	Credits
<i>Introductory Biology</i>		
Select one of the following options:		10
Option 1 (recommended):		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option 2:		
Select at least 10 credits from the following:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Organismal Biology	
BIOCORE 486	Organismal Biology Laboratory	
Option 3:		
BIOLOGY/ ZOOLOGY 101	Animal Biology	
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory	
BIOLOGY/ BOTANY 130	General Botany	
<i>Chemistry</i>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry (for those who might take more chemistry)	
<i>Physical Environment</i>		
Select one of the following:		3-5
ATM OCN/GEOSCI 105	Survey of Oceanography	
ENVIR ST/GEOSCI 106	Environmental Geology	
ENVIR ST/ GEOG 120	Introduction to the Earth System	

ENVIR ST/ GEOG 127	Physical Systems of the Environment	
GEOSCI 100	General Geology	
GEOSCI 107	Life of the Past	
GEOSCI 202	Introduction to Geologic Structures	
GEOSCI 204	Geologic Evolution of the Earth	
<i>Ecology and Evolution</i>		
Select two of the following, each from a different category (students are encouraged to take courses in all three areas):		6-7
Ecology:		
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
Evolution:		
GEOSCI 110 or ANTHRO/ BOTANY/ ZOOLOGY 410	Evolution and Extinction Evolutionary Biology	
Extinction:		
ENVIR ST/F&W ECOL/ZOOLOGY 360	Extinction of Species	
<i>Statistics</i>		
Select one of the following:		
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT 301	Introduction to Statistical Methods	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>SPECIES &amp; FIELD BIOLOGY</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
12 credits from:		
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	
ENTOM/ ZOOLOGY 371	Medical Entomology	
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology	
AN SCI/ F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	
ANTHRO 391	Bones for the Archaeologist	
ANTHRO 458	Primate Behavioral Ecology	
ANTHRO 668	Primate Conservation	
BOTANY 330	Algae	
BOTANY/ PL PATH 332	Fungi	
BOTANY 400	Plant Systematics	
BOTANY 401	Vascular Flora of Wisconsin	
BOTANY/ F&W ECOL 402	Dendrology	

BOTANY 403	Field Collections and Identification
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 331	Taxonomy of Mature Insects
ENTOM 342	Insect Ecology
ENTOM 432	Taxonomy and Bionomics of Immature Insects
ENTOM 468	Studies in Field Entomology
ENTOM/ ZOOLOGY 530	Insect Behavior
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources
ENVIR ST 375	Field Ecology Workshop
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 401	Physiological Animal Ecology
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
F&W ECOL 655	Animal Population Dynamics
GEOSCI 333	The Age of Dinosaurs
GEOSCI/ ZOOLOGY 541	Paleobiology
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology
HORT 370	World Vegetable Crops
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I/ PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory
PSYCH 449	Animal Behavior <sup>1</sup>
or ZOOLOGY 425	Behavioral Ecology
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources
ZOOLOGY 430	Comparative Anatomy of Vertebrates

<sup>1</sup> Students may apply both ZOOLOGY 425 Behavioral Ecology and PSYCH 449 Animal Behavior in the conservation biology program.

## ELECTIVES

Code	Title	Credits
<i>Social Science Electives</i>		
At least one 3 credit course from Social Science elective list:		
A A E 215	Introduction to Agricultural and Applied Economics	
A A E/ ENVIR ST 244	The Environment and the Global Economy	
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	
ECON 101	Principles of Microeconomics	
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	
ENVIR ST/ GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	
ENVIR ST/ GEOG 339	Environmental Conservation	
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	
ENVIR ST/ PHILOS 441	Environmental Ethics	
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	
GEOG 344	The American West	
GEOG 359	Australia: Environment and Society	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	
<i>Electives to attain 50 credits in the major</i>		
AGRONOMY/ HORT 328	Integrated Weed Management	
AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	
AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	
AGRONOMY/ ENTOM/ F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	
ANTHRO 658	Ecological Models of Behavior	
ATM OCN 100	Weather and Climate	
ATM OCN 101	Weather and Climate	

ATM OCN/ ENVIR ST/ GEOG 121	Atmospheric Environment and Society
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
BOTANY/ PL PATH 123	Plants, Parasites, and People
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology
BOTANY 300	Plant Anatomy
BOTANY 305	Plant Morphology and Evolution
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
ENTOM/ ZOOLOGY 540	Theoretical Ecology
ENTOM 699	Special Problems
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality
ENVIR ST/ LAND ARC 361	Wetlands Ecology
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ GEOG 537	Culture and Environment
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues
F&W ECOL 379	Principles of Wildlife Management
F&W ECOL 410	Principles of Silviculture
F&W ECOL 450	Communities and Forests
F&W ECOL 550	Forest Ecology
F&W ECOL 561	Wildlife Management Techniques

F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL/HORT/ STAT 571	Statistical Methods for Bioscience I
F&W ECOL/ ENTOM/ M&ENVTOX/ PL PATH/ SOIL SCI 606	Colloquium in Environmental Toxicology
F&W ECOL 699	Special Problems
GENETICS 466	Principles of Genetics
GEOG/ GEOSCI 320	Geomorphology
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOSCI/G L E 627	Hydrogeology
LAND ARC 262	Landscape Inventory and Evaluation Methods
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
PSYCH 556	Hormones and Behavior
SOIL SCI 301	General Soil Science
STAT/F&W ECOL/ HORT 572	Statistical Methods for Bioscience II
ZOOLOGY 535	Ecosystem Analysis

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in the major, taken on the UW–Madison campus

<sup>1</sup> Courses in the major numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Conservation Biology Major in consultation with the Conservation Biology undergraduate advisor.

## HONORS IN THE CONSERVATION BIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Conservation Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete at least 16 credits, taken for Honors, in the conservation biology major, to include a two-semester Senior Honors Thesis in an appropriate department<sup>1</sup>

<sup>1</sup> Examples include Botany, Zoology, Environmental Studies; see the Conservation Biology advisor to verify that your thesis department will be acceptable.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Students will explain the basic concepts of ecology and evolution and how they underpin and apply to the science of conservation biology.
2. Students will understand and explain the scientific process as related to conservation biology, including the relevance of theories and how hypotheses are tested.
3. Students will recognize species within some particular group of organisms and explain key aspects of their ecology, phylogeny, and conservation needs.
4. Students will apply general ecological principles to assess and address conservation threats to particular species, communities, and ecosystems.
5. Students will investigate and communicate the connections between the biological and social sciences and humanities as they affect conservation programs and activities.
6. Students will identify, interpret, and communicate conservation ideas, needs and programs to others.

## ADVISING AND CAREERS

### ADVISING

Students in the conservation biology major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<http://conservationbiology.ls.wisc.edu/advising.htm>) for a list of advisors and for the student services coordinator information.

The faculty advisor provides guidance specific to the discipline through discussions about undergraduate experiences (e.g., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline but helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress towards graduation, as well

as connecting students with important resources on campus. **Because the major is so broad and involves so much choice, it is important for students to meet early and regularly with their student services coordinator and faculty advisor.**

Students contemplating graduate work in a biological discipline are advised to take the following:

Code	Title	Credits
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	

Although not required for the major, such students are also encouraged to take the following:

Code	Title	Credits
CHEM 104	General Chemistry II	
GENETICS 466	Principles of Genetics	
PHYSICS 103	General Physics	
PHYSICS 104	General Physics	
MATH 221	Calculus and Analytic Geometry 1	

## PEOPLE

Professors Ane, Baum, Cameron (chair), Emshwiller, Fernandez, Gilroy, Givnish, Graham, Hotchkiss, Larget, Otegui, Spalding, Sytsma, Waller

Associate Professor Pringle

Assistant Professors Keefover-Ring, Maeda, McCulloh

Majors will eventually choose from the faculty a Senior Thesis advisor, who then will be the student's undergraduate advisor. Prospective majors should contact the general advisors directly.

Committee of Advisors: Professors Givnish (Botany), Hotchkiss (Botany/Environmental Studies), Ives (Zoology), Strier (Anthropology), Townsend (Forest & Wildlife Ecology), Vander Zanden (Center for Limnology/Zoology), Waller (Botany, chair of major)

## CHEMISTRY

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of

Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## DEGREES/MAJORS/CERTIFICATES

- Chemistry, B.A. (p. 487)
- Chemistry, B.S. (p. 492)

## PEOPLE

### PROFESSORS

Berry, John  
 Blackwell, Helen  
 Brunold, Thomas  
 Burke, Steven  
 Burstyn, Judith (Chair)  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Cui, Qiang  
 Ediger, Mark  
 Gellman, Samuel  
 Hamers, Robert  
 Jin, Song  
 Kiessling, Laura  
 Landis, Clark  
 McMahan, Robert  
 Moore, John  
 Nathanson, Gilbert  
 Raines, Ronald  
 Record, Thomas  
 Schwartz, David  
 Shakhshiri, Bassam

Sibert, Edwin  
 Smith, Lloyd  
 Stahl, Shannon  
 Weisshaar, James  
 Woods, Claude  
 Wright, John  
 Yethiraj, Arun  
 Yoon, Tehshik  
 Zanni, Martin

### ASSOCIATE PROFESSORS

Bertram, Timothy  
 Fredrickson, Daniel  
 Hermans, Ive  
 Schmidt, Jordan  
 Schomaker, Jennifer

### ASSISTANT PROFESSORS

Garand, Etienne  
 Goldsmith, Randall

### AFFILIATED PROFESSORS

Forest, Katrina (Professor of Bacteriology)  
 Ge, Ying (Associate Professor of Cell and Regenerative Biology)  
 Gilbert, Pupa (Professor of Physics)  
 Golden, Jennifer (Assistant Professor of Pharmacy)  
 Gopalan, Padma (Professor of Materials Science and Engineering)  
 Hsung, Richard (Professor of Pharmacy)  
 Jackson, Catherine (Assistant Professor of History of Science)  
 Kuech, Thomas (Professor of Chemical and Biological Engineering)  
 Li, Lingjun (Professor of Pharmacy)  
 Lynn, David (Professor of Chemical and Biological Engineering)  
 Mecozzi, Sandro (Associate Professor of Pharmacy)  
 Middlecamp, Catherine (Professor, Nelson Institute for Environmental Studies)  
 Pedersen, Joel (Professor of Soil Science)  
 Tang, Weiping (Associate Professor of Pharmacy)  
 Weibel, Douglas (Professor of Biochemistry)  
 Yu, Lian (Professor of Pharmacy)

### INSTRUCTIONAL STAFF

Abruña-Rodríguez, Ángel (Senior Faculty Assistant)  
 Bain, Rachel (Instructional Technology Specialist)  
 Block, Stephen (Lecturer and General Chemistry Assistant Laboratory Director)  
 Bowman, Matthew (Lecturer)  
 Doolittle, Pamela (Analytical Chemistry Laboratory Director)  
 Esselman, Brian (Lecturer and Organic Chemistry Assistant Laboratory Director)  
 Hill, Nicholas (Organic Chemistry Laboratory Director)  
 Hooker, Paul (Senior Lecturer)  
 Lamont, Liana (Faculty Assistant)  
 Maynard, James (Lecture Demonstrator)  
 McClain, Robert (Analytical Chemistry Laboratory Director)  
 Stoll, Lindy (Faculty Assistant)  
 Tatarsky, Amy (Faculty Assistant)  
 Wendt, Mark (Physical Chemistry Laboratory Director)  
 Wilkinson, Chad (General Chemistry Laboratory Director)  
 Zelewski, Linda (Lecturer)

Zhou, Jia (Associate Lecturer)

## CHEMISTRY LEARNING CENTER

Dang, Allice (Assistant Faculty Associate)

Jetzer, Kelly (Instructional Specialist)

Jacob, Anthony (Director)

Laboy, José (Associate Faculty Associate)

Lee, Agnes (Faculty Associate)

Ramey, Shea (Faculty Associate)

Reitz, Tracey (Assistant Faculty Associate)

Toland, David (Assistant Faculty Associate)

Zayas González, Yashira (Assistant Faculty Associate)

## STUDENT SERVICES AND ADVISING

Barta, Cheri (Undergraduate Research Director)

Hamers, Jeanne (Undergraduate Chemistry Director and Chemistry Advisor)

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend the office hours of the instructors for the course.

The Chemistry Learning Center (CLC) (<http://www.chem.wisc.edu/areas/clc/mission.htm>) supports students in introductory chemistry courses (103, 104, and 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc>). Alpha Chi Sigma (AXE) (<https://win.wisc.edu/organization/axsigma>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of private tutors (<https://www.chem.wisc.edu/content/tutors>) available for hire.

### SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2016, the department awarded almost 30 undergraduate scholarships that totaled more than \$150,000.

Any student who will be enrolled as an undergraduate at UW-Madison during the next academic year and is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the

scholarships. An overall GPA of at least 3.0 is required for application; awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://www.chem.wisc.edu/content/chemistry-scholarships>) and how to apply.

## CHEMISTRY, B.A.

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## HOW TO GET IN

Students who are interested in the chemistry major are encouraged to declare the major no later than the end of their sophomore year. There are many advantages to declaring the chemistry major early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry majors. Students who have declared the major become a part of our chemistry community, enabling them to better connect with faculty, staff and other chemistry majors.

Students who meet the recommendations (<https://www.chem.wisc.edu/content/declaring-major>) for declaring the major are invited to schedule an appointment (<https://www.chem.wisc.edu/content/undergraduate->

advising) with the undergraduate chemistry advisor to develop a four-year plan and to declare.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
	30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR MATH & PHYSICS

Code	Title	Credits
<b>Mathematics (1 course)</b> <sup>1</sup>		5
MATH 222	Calculus and Analytic Geometry 2	
MATH 276	Topics in Calculus II	
<b>Physics</b>		10
<i>First Introductory Course (1 course)</i>		
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
<i>Second Introductory Course (1 course)</i>		
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
Total Credits		15

### CHEMISTRY

Code	Title	Credits
<b>General Chemistry (1 course)</b>		5
CHEM 104	General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I <sup>2</sup>	
<b>Analytical Chemistry (1 course)</b>		4-5
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 116	Chemical Principles II	



<b>Inorganic Chemistry (1 course)</b>	4
CHEM 311 Chemistry Across the Periodic Table	4
<b>Organic Chemistry (3 courses)</b> <sup>3</sup>	8
CHEM 343 Introductory Organic Chemistry	
CHEM 344 Introductory Organic Chemistry Laboratory	
CHEM 345 Intermediate Organic Chemistry	
<b>Physical Chemistry</b>	3-4
<b>Part 1 (1 course)</b>	
CHEM 561 Physical Chemistry	
CHEM 565 Biophysical Chemistry	
CBE 310 Chemical Process Thermodynamics	
<b>Part 2 (1 course)</b> <sup>4</sup>	
CHEM 562 Physical Chemistry	
<b>Part 3 (2 courses)</b>	
CHEM 564 Physical Chemistry Laboratory	
CHEM 563 Physical Chemistry Laboratory	
<b>Advanced Non-laboratory Coursework</b>	5
non-lab CHEM 500–680; non-lab BIOCHEM 500-680 <sup>5</sup>	
<b>Additional Laboratory Work</b>	3
CHEM 346 Intermediate Organic Chemistry Laboratory	
CHEM 524 Chemical Instrumentation <sup>6</sup>	
CHEM 691 Senior Thesis & CHEM 692 and Senior Thesis	
CHEM 699 Directed Study	
BMOLCHEM 504 Human Biochemistry Laboratory <sup>7</sup>	
<b>Total Credits</b>	<b>36-38</b>

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in all CHEM and major courses

2.000 GPA on at least 15 credits of upper-level work in the major<sup>8</sup>

15 credits in CHEM, taken at UW–Madison

## NOTES

<sup>1</sup> MATH 234 Calculus–Functions of Several Variables and MATH 320 Linear Algebra and Differential Equations is highly recommended

<sup>2</sup> Enrollment in CHEM 115 and CHEM 116 is by invitation only. Entering first-year students are screened on the basis of high school record and placement scores, and additional information is sent to those who might be eligible.

<sup>3</sup> CHEM 343 must be taken first, followed by CHEM 345. CHEM 344 may be taken concurrently with or after CHEM 345.

<sup>4</sup> It is recommended that CHEM 563 be taken concurrently with CHEM 562 and that CHEM 564 be taken after completion of CHEM 562. Especially strong students needing to complete physical chemistry in two semesters may take CHEM 563 concurrently with CHEM 561 (or CHEM 565) and CHEM 564 concurrently with CHEM 562.

<sup>5</sup> One credit from each of CHEM 116 and CHEM 565 count toward the 5 credits. Only 2 of the 3 credits from CHEM 524 count. The other credit from CHEM 524 counts toward the additional laboratory work. Some courses from other departments may be chosen as well, including CHEM/M S & E 421, CBE 440, CBE 540, and CBE 547.

<sup>6</sup> Only 1 of the 3 credits from CHEM 524 counts for additional laboratory work requirement. The other 2 credits count toward the advanced non-laboratory coursework.

<sup>7</sup> BMOLCHEM 504 does not count for students who are also majoring in biochemistry. Nor will it count for students who are using this course to satisfy requirements for another major.

<sup>8</sup> Upper-level work in the major includes: CHEM 346, CHEM/M S & E 421, CHEM 500–699, BIOCHEM 501, BIOCHEM 507, BIOCHEM 508, CBE 310, CBE 440, CBE 540, CBE 599.

## HONORS IN THE MAJOR

Students may declare Honors in the Chemistry Major in consultation with the chemistry major advisor (<https://www.chem.wisc.edu/content/undergraduate-advising>). To be admitted to the Honors Program in Chemistry, students must have declared a major in chemistry and achieved a 3.300 GPA in all CHEM courses taken.

## HONORS IN THE CHEMISTRY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Chemistry students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all CHEM courses
- Complete at least 3 credits of advanced work beyond those already required for the major. This requirement may be met in one of three ways:
  - With additional 500-level or higher courses in chemistry or biochemistry;
  - With additional research credits, beyond credits for the Senior Honors Thesis and beyond any credits that are being used to satisfy the 3 additional laboratory credits required for the major; or
  - With additional breadth courses in other related disciplines<sup>1</sup>
- Complete a two-semester Senior Honors Thesis in CHEM 681 Senior Honors Thesis and CHEM 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Examples of breadth courses include engineering, physics, molecular biology, computer science, water chemistry, and business. Advanced-level courses should be chosen in consultation with the student's research mentor.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

The chemistry major curriculum provides students with a sound foundation in chemical principles along with significant opportunities to participate in scientific inquiry in a creative environment. Students majoring in chemistry gain knowledge, skills, and experiences that enable them to address real world chemical problems. These skills include the ability to solve problems, think critically, and act ethically. Specific learning goals for the major are detailed below.

1. Students will identify, formulate and solve integrative problems using appropriate information and approaches.
2. Students will demonstrate an understanding of basic chemical transformations, including the ability to predict chemical reactivity and properties.
3. Students will recognize the relationship between structure, bonding and the properties of molecules and materials.
4. Students will model chemical systems and experimental data using relevant quantitative, mathematical and computational methods.
5. Students will be able to design, conduct and analyze experiments safely and successfully.
6. Students will be capable of locating, evaluating and using information in the chemical literature.
7. Students will communicate chemical knowledge effectively through written reports, oral presentations and visual aids.
8. Students will be able to work collaboratively with others, both chemists and those from other disciplines, to solve problems and create new knowledge.
9. Students will recognize how chemistry relates to contemporary issues in our society.
10. Students will have an understanding of professional and ethical responsibility.

## ADVISING AND CAREERS

### ADVISING

The chemistry advisor (<http://www.chem.wisc.edu/content/undergraduate-advising>) provides advising for chemistry majors and prospective chemistry majors. Appointments with the advisor can be scheduled via the Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/OaaAyBiv.html>). Drop-in advising is available during the first two weeks of the fall and spring semesters and during busy enrollment periods, typically in April and November.

Chemistry majors interested in getting involved in research should explore the undergraduate research (<http://www.chem.wisc.edu/content/get-started>) pages on the chemistry website. Students needing additional information may contact the undergraduate research director by email ([chem\\_ugr\\_research@chem.wisc.edu](mailto:chem_ugr_research@chem.wisc.edu)).

Students with enrollment and course access questions should first visit our enrollment inquiries (<http://www.chem.wisc.edu/content/>

enrollment-inquiries) web page. If further assistance is needed, students may visit the Undergraduate Chemistry Office (room 1328 Chemistry) during normal business hours, email ([undergrad@chem.wisc.edu](mailto:undergrad@chem.wisc.edu)), or call 608-263-2424.

## CAREER SERVICES

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

Students are encouraged to begin their career planning early and to take advantage of the numerous resources offered by the College of Letters & Science Career Services (<http://careers.ls.wisc.edu/students.htm>). Information about careers, internships, resumes, cover letters, job search strategies, interviewing, and graduate school preparation are all available through L&S Career Services. Students can also register for BuckyNet (<http://careers.ls.wisc.edu/buckynet-students.htm>), an online resource for students to make connections with potential employers. Current career, research, and internship opportunities of specific interest to chemistry students can be found on the Career Services (<http://www.chem.wisc.edu/content/career-services>) pages of the chemistry website.

## PEOPLE

### PROFESSORS

Berry, John  
 Blackwell, Helen  
 Brunold, Thomas  
 Burke, Steven  
 Burstyn, Judith (Chair)  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Cui, Qiang  
 Ediger, Mark  
 Gellman, Samuel  
 Hamers, Robert  
 Jin, Song  
 Kiessling, Laura  
 Landis, Clark  
 McMahon, Robert  
 Moore, John  
 Nathanson, Gilbert  
 Raines, Ronald  
 Record, Thomas  
 Schwartz, David  
 Shakhshiri, Bassam  
 Sibert, Edwin  
 Smith, Lloyd

Stahl, Shannon  
 Weisshaar, James  
 Woods, Claude  
 Wright, John  
 Yethiraj, Arun  
 Yoon, Tehshik  
 Zanni, Martin

## ASSOCIATE PROFESSORS

Bertram, Timothy  
 Fredrickson, Daniel  
 Hermans, Ive  
 Schmidt, Jordan  
 Schomaker, Jennifer

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 Hsung, Richard (Professor of Pharmacy)  
 Jackson, Catherine (Assistant Professor of History of Science)  
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 Mecozzi, Sandro (Associate Professor of Pharmacy)  
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## INSTRUCTIONAL STAFF

Abruña-Rodríguez, Ángel (Senior Faculty Assistant)  
 Bain, Rachel (Instructional Technology Specialist)  
 Block, Stephen (Lecturer and General Chemistry Assistant Laboratory Director)  
 Bowman, Matthew (Lecturer)  
 Doolittle, Pamela (Analytical Chemistry Laboratory Director)  
 Esselman, Brian (Lecturer and Organic Chemistry Assistant Laboratory Director)  
 Hill, Nicholas (Organic Chemistry Laboratory Director)  
 Hooker, Paul (Senior Lecturer)  
 Lamont, Liana (Faculty Assistant)  
 Maynard, James (Lecture Demonstrator)  
 McClain, Robert (Analytical Chemistry Laboratory Director)  
 Stoll, Lindy (Faculty Assistant)  
 Tatarsky, Amy (Faculty Assistant)  
 Wendt, Mark (Physical Chemistry Laboratory Director)  
 Wilkinson, Chad (General Chemistry Laboratory Director)  
 Zelewski, Linda (Lecturer)  
 Zhou, Jia (Associate Lecturer)

## CHEMISTRY LEARNING CENTER

Dang, Allice (Assistant Faculty Associate)  
 Jetzer, Kelly (Instructional Specialist)  
 Jacob, Anthony (Director)  
 Laboy, José (Associate Faculty Associate)  
 Lee, Agnes (Faculty Associate)  
 Ramey, Shea (Faculty Associate)  
 Reitz, Tracey (Assistant Faculty Associate)  
 Toland, David (Assistant Faculty Associate)  
 Zayas Gonzáles, Yashira (Assistant Faculty Associate)

## STUDENT SERVICES AND ADVISING

Barta, Cheri (Undergraduate Research Director)  
 Hamers, Jeanne (Undergraduate Chemistry Director and Chemistry Advisor)

## WISCONSIN EXPERIENCE

## RESEARCH

There are many research opportunities for undergraduates in the Department of Chemistry. When conducting research, students will have the opportunity to work alongside world-class faculty, staff, and graduate students to gain hands-on research experiences that will supplement their liberal arts education and prepare students for future careers. We have researchers involved in all the core areas of chemistry: analytical, chemical biology, chemical education, inorganic, materials, organic, physical, and theoretical. Many of our researchers conduct research across disciplines, including medicine, pharmacy, biology, engineering, energy, environmental sciences, and physics. Although preference is given to chemistry majors in good academic standing, any student interested in conducting chemistry research can seek out opportunities in our department. Students have the option of volunteering in a research lab or conducting research for course credit by enrolling in CHEM 299 Directed Study, CHEM 699 Directed Study, CHEM 681/CHEM 682 Senior Honors Thesis, or CHEM 691/CHEM 692 Senior Thesis. Students can also gain research experiences through the elective courses CHEM 260 Entering Research I, CHEM 261 Entering Research II, and CHEM 346 Intermediate Organic Chemistry Laboratory, as well as the required course CHEM 329 Fundamentals of Analytical Science. In some cases, experienced undergraduates may be paid to conduct research. For additional information about undergraduate research, including how to get involved, please visit the department's Undergraduate Research (<https://www.chem.wisc.edu/content/research-overview>) page.

## STUDENT ORGANIZATIONS

A number of students of organizations are available for students interested in the chemical sciences.

- The American Chemical Society (ACS) Student Chapter (<https://win.wisc.edu/organization/acs>) facilitates opportunities for students in the chemical sciences to promote the learning and advancement of chemistry. The chapter supports students in their academic development, professional development, and research pursuits.
- Alpha Chi Sigma (AXE) (<https://alphachisigmauw.wordpress.com>) is a national, co-ed, professional chemistry organization that was founded at UW-Madison in 1902. The UW-Madison chapter has an active membership of about 40 students, both graduate and undergraduate. The organization also has two houses, at 619 and

621 North Lake Street, which house nearly half of the members. The houses are the primary locations for events like tutoring, chapter dinners, meetings, and social events.

- Students Participating in Chemical Education (SPICE) (<http://ice.chem.wisc.edu/SPICE.html>) trains undergraduates to perform chemistry demonstrations in order to interest elementary and middle school students in chemistry and science via cool experiments, hands-on activities, and exploration stations at public venues.
- The UW–Madison student chapter of NOBCChE (<https://win.wisc.edu/organization/NOBCChE>) (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) seeks to encourage students of color to pursue graduate and professional degrees in chemistry, chemical engineering, and other chemistry-related fields. Members participate in professional development through national conference presentations, networking, and community service activities.
- SACNAS (<http://uwmadisonsacnas.weebly.com>) (the Society for the Advancement of Hispanics/Chicanos and Native Americans) is a society of scientists dedicated to fostering the success of Hispanic/Chicano and Native American scientists—from college students to professionals—to attain advanced degrees, careers, and positions of leadership in science.

## CERTIFICATION/LICENSURE

### ACS CERTIFIED DEGREE

The UW–Madison Department of Chemistry is approved by the American Chemical Society (ACS) to certify the degrees of graduating students who have completed the curriculum and professional training recommended by ACS for chemistry bachelor's degree graduates. Certification indicates that the student has completed rigorous course work that provides them with the skills needed for a successful career in science.

Students graduating with the chemistry major from UW–Madison already meet most of the requirements of ACS certification. They can obtain the certification by electing to take specific courses that satisfy both the requirements of the major and the ACS guidelines. Additional requirements for certification are:

- A course in biochemistry, satisfied by BIOCHEM 501 Introduction to Biochemistry or BIOCHEM 507 General Biochemistry I (3 credits)
- At least 400 total laboratory hours, which can be satisfied by the combination of all the required core laboratory courses (in organic, inorganic, analytical and physical chemistry) plus two to three laboratory credits from any combination of CHEM 346 Intermediate Organic Chemistry Laboratory, CHEM 524 Chemical Instrumentation (3 credit course, but only one credit is a lab credit), CHEM 681/CHEM 682 Senior Honors Thesis, CHEM 691/ CHEM 692 Senior Thesis or BMOLCHEM 504 Human Biochemistry Laboratory. The exact number of lab credits required from these courses depends on how the student has satisfied the core lab requirements. Please consult the Chemistry Major Advisor (<https://www.chem.wisc.edu/content/undergraduate-advising>) for more details.

The biochemistry course satisfies three of the five credits of advanced work required for the chemistry major, while two credits from CHEM 524 also count towards the advanced work. CHEM 346, 1 credit of CHEM 524, CHEM 691/CHEM 692 and BMOLCHEM 504 all count towards the three additional lab credits required for the major, while CHEM 681/CHEM 682

does not. CHEM 681/682 is required for students earning honors in the chemistry major.

Note that neither CHEM 299 Directed Study nor CHEM 699 Directed Study can be used to satisfy the lab hours needed for ACS certification. However, CHEM 699 can be used to satisfy additional lab credits needed for the chemistry major.

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend the office hours of the instructors for the course.

The Chemistry Learning Center (CLC) (<http://www.chem.wisc.edu/areas/clc/mission.htm>) supports students in introductory chemistry courses (103, 104, and 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc>). Alpha Chi Sigma (AXE) (<https://win.wisc.edu/organization/axsigma>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of private tutors (<https://www.chem.wisc.edu/content/tutors>) available for hire.

### SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2016, the department awarded almost 30 undergraduate scholarships that totaled more than \$150,000.

Any student who will be enrolled as an undergraduate at UW–Madison during the next academic year and is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the scholarships. An overall GPA of at least 3.0 is required for application; awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://www.chem.wisc.edu/content/chemistry-scholarships>) and how to apply.

## CHEMISTRY, B.S.

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the

highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## HOW TO GET IN

Students who are interested in the chemistry major are encouraged to declare the major no later than the end of their sophomore year. There are many advantages to declaring the chemistry major early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry majors. Students who have declared the major become a part of our chemistry community, enabling them to better connect with faculty, staff and other chemistry majors.

Students who meet the recommendations (<https://www.chem.wisc.edu/content/declaring-major>) for declaring the major are invited to schedule an appointment (<https://www.chem.wisc.edu/content/undergraduate-advising>) with the undergraduate chemistry advisor to develop a four-year plan and to declare.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

### MATH & PHYSICS

Code	Title	Credits
<b>Mathematics (1 course)</b> <sup>1</sup>		5
MATH 222	Calculus and Analytic Geometry 2	
MATH 276	Topics in Calculus II	
<b>Physics</b>		10
<i>First Introductory Course (1 course)</i>		
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
<i>Second Introductory Course (1 course)</i>		
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
Total Credits		15

### CHEMISTRY

Code	Title	Credits
<b>General Chemistry (1 course)</b>		5
CHEM 104	General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I <sup>2</sup>	
<b>Analytical Chemistry (1 course)</b>		4-5
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 116	Chemical Principles II	
<b>Inorganic Chemistry (1 course)</b>		4
CHEM 311	Chemistry Across the Periodic Table	4
<b>Organic Chemistry (3 courses)</b> <sup>3</sup>		8
CHEM 343	Introductory Organic Chemistry	
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Intermediate Organic Chemistry	
<b>Physical Chemistry</b>		3-4
<b>Part 1 (1 course)</b>		
CHEM 561	Physical Chemistry	
CHEM 565	Biophysical Chemistry	
CBE 310	Chemical Process Thermodynamics	
<b>Part 2 (1 course)</b> <sup>4</sup>		
CHEM 562	Physical Chemistry	

### Part 3 (2 courses)

CHEM 564 Physical Chemistry Laboratory

CHEM 563 Physical Chemistry Laboratory

**Advanced Non-laboratory Coursework** 5

non-lab CHEM 500–680; non-lab BIOCHEM 500-680<sup>5</sup>

**Additional Laboratory Work** 3

CHEM 346 Intermediate Organic Chemistry Laboratory

CHEM 524 Chemical Instrumentation<sup>6</sup>

CHEM 691 & CHEM 692 Senior Thesis and Senior Thesis

CHEM 699 Directed Study

BMOLCHEM 504 Human Biochemistry Laboratory<sup>7</sup>

Total Credits 36-38

### RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in all CHEM and major courses

2.000 GPA on at least 15 credits of upper-level work in the major<sup>8</sup>

15 credits in CHEM, taken at UW–Madison

### NOTES

<sup>1</sup> MATH 234 Calculus–Functions of Several Variables and MATH 320 Linear Algebra and Differential Equations is highly recommended

<sup>2</sup> Enrollment in CHEM 115 and CHEM 116 is by invitation only. Entering first-year students are screened on the basis of high school record and placement scores, and additional information is sent to those who might be eligible.

<sup>3</sup> CHEM 343 must be taken first, followed by CHEM 345. CHEM 344 may be taken concurrently with or after CHEM 345.

<sup>4</sup> It is recommended that CHEM 563 be taken concurrently with CHEM 562 and that CHEM 564 be taken after completion of CHEM 562. Especially strong students needing to complete physical chemistry in two semesters may take CHEM 563 concurrently with CHEM 561 (or CHEM 565) and CHEM 564 concurrently with CHEM 562.

<sup>5</sup> One credit from each of CHEM 116 and CHEM 565 count toward the 5 credits. Only 2 of the 3 credits from CHEM 524 count. The other credit from CHEM 524 counts toward the additional laboratory work. Some courses from other departments may be chosen as well, including CHEM/M S & E 421, CBE 440, CBE 540, and CBE 547.

<sup>6</sup> Only 1 of the 3 credits from CHEM 524 counts for additional laboratory work requirement. The other 2 credits count toward the advanced non-laboratory coursework.

<sup>7</sup> BMOLCHEM 504 does not count for students who are also majoring in biochemistry. Nor will it count for students who are using this course to satisfy requirements for another major.

<sup>8</sup> Upper-level work in the major includes: CHEM 346, CHEM/M S & E 421, CHEM 500–699, BIOCHEM 501, BIOCHEM 507, BIOCHEM 508, CBE 310, CBE 440, CBE 540, CBE 599.

### HONORS IN THE MAJOR

Students may declare Honors in the Chemistry Major in consultation with the chemistry major advisor (<https://www.chem.wisc.edu/content/undergraduate-advising>). To be admitted to the Honors Program in

Chemistry, students must have declared a major in chemistry and achieved a 3.300 GPA in all CHEM courses taken.

## HONORS IN THE CHEMISTRY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Chemistry students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all CHEM courses
- Complete at least 3 credits of advanced work beyond those already required for the major. This requirement may be met in one of three ways:
  - With additional 500-level or higher courses in chemistry or biochemistry;
  - With additional research credits, beyond credits for the Senior Honors Thesis and beyond any credits that are being used to satisfy the 3 additional laboratory credits required for the major; or
  - With additional breadth courses in other related disciplines<sup>1</sup>
- Complete a two-semester Senior Honors Thesis in CHEM 681 Senior Honors Thesis and CHEM 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Examples of breadth courses include engineering, physics, molecular biology, computer science, water chemistry, and business. Advanced-level courses should be chosen in consultation with the student's research mentor.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

The chemistry major curriculum provides students with a sound foundation in chemical principles along with significant opportunities to participate in scientific inquiry in a creative environment. Students majoring in chemistry gain knowledge, skills, and experiences that enable them to address real world chemical problems. These skills include

the ability to solve problems, think critically, and act ethically. Specific learning goals for the major are detailed below.

1. Students will identify, formulate and solve integrative problems using appropriate information and approaches.
2. Students will demonstrate an understanding of basic chemical transformations, including the ability to predict chemical reactivity and properties.
3. Students will recognize the relationship between structure, bonding and the properties of molecules and materials.
4. Students will model chemical systems and experimental data using relevant quantitative, mathematical and computational methods.
5. Students will be able to design, conduct and analyze experiments safely and successfully.
6. Students will be capable of locating, evaluating and using information in the chemical literature.
7. Students will communicate chemical knowledge effectively through written reports, oral presentations and visual aids.
8. Students will be able to work collaboratively with others, both chemists and those from other disciplines, to solve problems and create new knowledge.
9. Students will recognize how chemistry relates to contemporary issues in our society.
10. Students will have an understanding of professional and ethical responsibility.

## ADVISING AND CAREERS

### ADVISING

The chemistry advisor (<http://www.chem.wisc.edu/content/undergraduate-advising>) provides advising for chemistry majors and prospective chemistry majors. Appointments with the advisor can be scheduled via the Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/OaaAyBiv.html>). Drop-in advising is available during the first two weeks of the fall and spring semesters and during busy enrollment periods, typically in April and November.

Chemistry majors interested in getting involved in research should explore the undergraduate research (<http://www.chem.wisc.edu/content/get-started>) pages on the chemistry website. Students needing additional information may contact the undergraduate research director by email ([chem\\_ugr\\_research@chem.wisc.edu](mailto:chem_ugr_research@chem.wisc.edu)).

Students with enrollment and course access questions should first visit our enrollment inquiries (<http://www.chem.wisc.edu/content/enrollment-inquiries>) web page. If further assistance is needed, students may visit the Undergraduate Chemistry Office (room 1328 Chemistry) during normal business hours, email ([undergrad@chem.wisc.edu](mailto:undergrad@chem.wisc.edu)), or call 608-263-2424.

### CAREER SERVICES

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related

fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

Students are encouraged to begin their career planning early and to take advantage of the numerous resources offered by the College of Letters & Science Career Services (<http://careers.ls.wisc.edu/students.htm>). Information about careers, internships, resumes, cover letters, job search strategies, interviewing, and graduate school preparation are all available through L&S Career Services. Students can also register for BuckyNet (<http://careers.ls.wisc.edu/buckynet-students.htm>), an online resource for students to make connections with potential employers. Current career, research, and internship opportunities of specific interest to chemistry students can be found on the Career Services (<http://www.chem.wisc.edu/content/career-services>) pages of the chemistry website.

## PEOPLE

### PROFESSORS

Berry, John  
 Blackwell, Helen  
 Brunold, Thomas  
 Burke, Steven  
 Burstyn, Judith (Chair)  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Cui, Qiang  
 Ediger, Mark  
 Gellman, Samuel  
 Hamers, Robert  
 Jin, Song  
 Kiessling, Laura  
 Landis, Clark  
 McMahan, Robert  
 Moore, John  
 Nathanson, Gilbert  
 Raines, Ronald  
 Record, Thomas  
 Schwartz, David  
 Shakhshiri, Bassam  
 Sibert, Edwin  
 Smith, Lloyd  
 Stahl, Shannon  
 Weisshaar, James  
 Woods, Claude  
 Wright, John  
 Yethiraj, Arun  
 Yoon, Tehshik  
 Zanni, Martin

### ASSOCIATE PROFESSORS

Bertram, Timothy  
 Fredrickson, Daniel  
 Hermans, Ive  
 Schmidt, Jordan

Schomaker, Jennifer

### ASSISTANT PROFESSORS

Garand, Etienne  
 Goldsmith, Randall

### AFFILIATED PROFESSORS

Forest, Katrina (Professor of Bacteriology)  
 Ge, Ying (Associate Professor of Cell and Regenerative Biology)  
 Gilbert, Pupa (Professor of Physics)  
 Golden, Jennifer (Assistant Professor of Pharmacy)  
 Gopalan, Padma (Professor of Materials Science and Engineering)  
 Hsung, Richard (Professor of Pharmacy)  
 Jackson, Catherine (Assistant Professor of History of Science)  
 Kuech, Thomas (Professor of Chemical and Biological Engineering)  
 Li, Lingjun (Professor of Pharmacy)  
 Lynn, David (Professor of Chemical and Biological Engineering)  
 Mecozzi, Sandro (Associate Professor of Pharmacy)  
 Middlecamp, Catherine (Professor, Nelson Institute for Environmental Studies)  
 Pedersen, Joel (Professor of Soil Science)  
 Tang, Weiping (Associate Professor of Pharmacy)  
 Weibel, Douglas (Professor of Biochemistry)  
 Yu, Lian (Professor of Pharmacy)

### INSTRUCTIONAL STAFF

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- The UW–Madison student chapter of NOBCCChE (<https://win.wisc.edu/organization/NOBCCChE>) (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) seeks to encourage students of color to pursue graduate and professional degrees in chemistry, chemical engineering, and other chemistry-related fields. Members participate in professional

development through national conference presentations, networking, and community service activities.

- SACNAS (<http://uwmadisonsacnas.weebly.com>) (the Society for the Advancement of Hispanics/Chicanos and Native Americans) is a society of scientists dedicated to fostering the success of Hispanic/Chicano and Native American scientists—from college students to professionals—to attain advanced degrees, careers, and positions of leadership in science.

## CERTIFICATION/LICENSURE

### ACS CERTIFIED DEGREE

The UW–Madison Department of Chemistry is approved by the American Chemical Society (ACS) to certify the degrees of graduating students who have completed the curriculum and professional training recommended by ACS for chemistry bachelor's degree graduates. Certification indicates that the student has completed rigorous course work that provides them with the skills needed for a successful career in science.

Students graduating with the chemistry major from UW–Madison already meet most of the requirements of ACS certification. They can obtain the certification by electing to take specific courses that satisfy both the requirements of the major and the ACS guidelines. Additional requirements for certification are:

- A course in biochemistry, satisfied by BIOCHEM 501 Introduction to Biochemistry or BIOCHEM 507 General Biochemistry I (3 credits)
- At least 400 total laboratory hours, which can be satisfied by the combination of all the required core laboratory courses (in organic, inorganic, analytical and physical chemistry) plus two to three laboratory credits from any combination of CHEM 346 Intermediate Organic Chemistry Laboratory, CHEM 524 Chemical Instrumentation (3 credit course, but only one credit is a lab credit), CHEM 681/CHEM 682 Senior Honors Thesis, CHEM 691/CHEM 692 Senior Thesis or BMOLCHEM 504 Human Biochemistry Laboratory. The exact number of lab credits required from these courses depends on how the student has satisfied the core lab requirements. Please consult the Chemistry Major Advisor (<https://www.chem.wisc.edu/content/undergraduate-advising>) for more details.

The biochemistry course satisfies three of the five credits of advanced work required for the chemistry major, while two credits from CHEM 524 also count towards the advanced work. CHEM 346, 1 credit of CHEM 524, CHEM 691/CHEM 692 and BMOLCHEM 504 all count towards the three additional lab credits required for the major, while CHEM 681/CHEM 682 does not. CHEM 681/682 is required for students earning honors in the chemistry major.

Note that neither CHEM 299 Directed Study nor CHEM 699 Directed Study can be used to satisfy the lab hours needed for ACS certification. However, CHEM 699 can be used to satisfy additional lab credits needed for the chemistry major.

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend the office hours of the instructors for the course.

The Chemistry Learning Center (CLC) (<http://www.chem.wisc.edu/areas/clc/mission.htm>) supports students in introductory chemistry courses (103, 104, and 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc>). Alpha Chi Sigma (AXE) (<https://win.wisc.edu/organization/axsigma>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of private tutors (<https://www.chem.wisc.edu/content/tutors>) available for hire.

## SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2016, the department awarded almost 30 undergraduate scholarships that totaled more than \$150,000.

Any student who will be enrolled as an undergraduate at UW-Madison during the next academic year and is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the scholarships. An overall GPA of at least 3.0 is required for application; awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://www.chem.wisc.edu/content/chemistry-scholarships>) and how to apply.

## CHICANA/O AND LATINA/O STUDIES

The Chicana/o and Latina/o Studies Program (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS certificate is designed to provide students with a broad knowledge base and the intellectual tools to understand the unity and diversity of U.S. Latina/o populations. The primary objective of the CLS program is to train students in the study of Chicana/o and Latina/os, as well as to introduce them to the central questions, topics, and applications that have emerged in this field of inquiry.

CLS offers a variety of courses, some focusing on particular national-origin groups or specific academic disciplines, and others organized around comparative topics or issues. We welcome you to join our academic community of learners.

**Note:** The @ ending ("a" at the center of "o") offers a simultaneous presentation of both the feminine and masculine word endings of

Chicana, Chicano, Latina, and Latino and allows readers/speakers to choose the form they prefer.

## DEGREES/MAJORS/CERTIFICATES

- Chicana/o and Latina/o Studies, Certificate (p. 498)

## PEOPLE

### CHICANA/O AND LATINA/O STUDIES (CLS) DIRECTOR

- Ben Marquez (Political Science)

### FACULTY

- Jim Escalante (Art)
- Alberta M. Gloria (Counseling Psychology)
- Mary Louise Gomez (Curriculum and Instruction)
- Taucia Gonzalez (Rehabilitation Psychology and Special Education)
- Paola Hernandez (Spanish and Portuguese)
- Armando Ibarra (School for Workers)
- Susan L. Johnson (History)
- Michael Light (Chicana/o & Latina/o Studies and Sociology)
- Ruben Medina (Spanish)
- Alfonso Morales (Urban and Regional Planning)
- Mariana Pacheco (Curriculum and Instruction)
- Steve Quintana (Counseling Psychology)
- Carolina Sarmiento (School of Human Ecology)
- Revel Sims (Chicana/o & Latina/o Studies and Urban and Regional Planning)
- Lynet Uttal (Counseling Psychology)
- Carmen Valdez (Counseling Psychology)

**Instructors:** Roberta Fernandez, Carla Gonzalez, Kimberly Hernandez

**Emeritus Faculty:** Andrea-Teresa Arenas, Consuelo López-Springfield, Norma Saldivar, Francisco Scarano, Steve Stern

### STAFF

- Rachele Eilers (Certificate Advisor)
- Peter Haney (Program Administrator)
- Natalie Mena (Project Assistant)

## CHICANA/O AND LATINA/O STUDIES, CERTIFICATE

The program in Chicana/o and Latina/o Studies (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS certificate is designed to provide students with a broad knowledge base and the intellectual tools to understand the unity and diversity of U.S. Latina/o populations. The primary objective of the CLS program is to train students in the study of Chicana/o and Latina/os, as well as to introduce them to the central questions, topics, and applications that have emerged in this field of inquiry.

## HOW TO GET IN

An undergraduate certificate in Chicana/o and Latina/o studies is available for those students from any undergraduate major who wish to pursue Chicana/o and Latina/o studies courses in a systematic manner. Information on the certificate is available in the Student Advising Office, 307 Ingraham Hall. Prospective certificate students must make an appointment with Rachelle Eilers, [reilers@wisc.edu](mailto:reilers@wisc.edu), to discuss requirements, courses, and application to the certificate.

## REQUIREMENTS

Completion of the certificate requires a minimum of **15 credits** in Chicana/o and Latina/o studies. A maximum of 3 credits earned through a directed study course (CHICLA 699) can count toward the certificate.

Code	Title	Credits
Select one Introduction Course:		
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	
Select at least one additional 100- or 200-level course		
CHICLA/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	
CHICLA 210	Chicana/o and Latina/o Cultural Studies	
CHICLA 230	Topics in Chicana/o and Latina/o Studies	
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	
CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	
COUN PSY 225	Coming to Terms with Cultural Diversity: Invitation to Dialogue	
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/GEORG/ HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
SOC 134	Problems of American Racial and Ethnic Minorities	
At least 9 credits of advanced courses:		
CHICLA 301	Chicana/o and Latina/o History	
CHICLA/ POLI SCI 302	Mexican-American Politics	
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	
CHICLA/ ENGL 368	Chicana/o and Latina/o Literatures	
CHICLA/ COM ARTS 419	Latino/as and Media	
CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	

CHICLA/ GEN&WS 425	Chicana and Latina Feminisms, Arts, and Media
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World
CHICLA/ SPANISH 459	Mexico in the Chicano and Chicana Literary Imagination
CHICLA/ HISTORY 468	Popular Culture in the Multi-racial United States
CHICLA 510	Integrative Seminar in Chicana/o Studies
CHICLA 519	Transnational and Comparative Working-Class Cultures
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services
CHICLA/ SOC WORK 657	Understanding Latino Families and Communities
CHICLA 330	Topics in Chicano/a Studies
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media
CHICLA/ HISTORY 461	The American West to 1850
CHICLA/ HISTORY 462	The American West Since 1850
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration
CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies
CHICLA 699	Directed Study <sup>1</sup>
GEN&WS/ PORTUG 460	Carmen Miranda
HDFS 474	Racial Ethnic Families in the U.S.
HISTORY 408	American Labor History: 1900-Present
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics

<sup>1</sup> A maximum of 3 credits earned through a directed study course (CHICLA 699) can count toward the certificate.

## RESIDENCE AND QUALITY OF WORK

- 8 credits in CHICLA or credits counting toward the certificate, taken in residence
- A cumulative 2.000 GPA in courses counting toward the certificate

## ADVISING AND CAREERS

An undergraduate certificate in Chicana/o and Latina/o studies is available for those students from any undergraduate major who wish to pursue Chicana/o and Latina/o studies courses in a systematic manner. Academic advising for the CLS certificate is available in the Student Advising Office, 307 Ingraham Hall. Prospective and current certificate students must make an appointment with Rachelle Eilers, [reilers@wisc.edu](mailto:reilers@wisc.edu), to discuss requirements, courses, and application to the certificate.

## PEOPLE

### CHICANA/O AND LATINA/O STUDIES (CLS) DIRECTOR

- Ben Marquez (Political Science)

### FACULTY

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### STAFF

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- Peter Haney (Program Administrator)
- Natalie Mena (Project Assistant)

## CLASSICAL AND ANCIENT NEAR EASTERN STUDIES

The widespread influence of Greece and Rome upon our own modern society, the intrinsic attraction of ancient literature, civilization, and material culture, and the interdisciplinary nature of the discipline make classics a dynamic and popular field of study. Moreover, undergraduate training in classics demands an intellectual rigor that can prepare students for more advanced training in graduate school, supplement their studies in a variety of other disciplines in the humanities, sciences, and engineering, and help them gain admittance to professional programs in law and medicine.

To this end, the Department of Classical and Ancient Near Eastern Studies (CANES) offers three majors and a certificate, providing a number of options for students wishing to explore their interests in classical studies. For students interested in Latin *and* Greek, the department offers the **classics** major, which requires proficiency in both languages but allows students to emphasize study of one or the other. The department also offers a **Latin** major only, often chosen by students interested in teaching.

The **classical humanities** major combines language study with the study of the literature and culture of the ancient world. Finally, the department offers the **classical studies** certificate, preferred by students who wish to explore literature and culture without a concentration in language.

For more information about any of these options, please contact the CANES department (<http://canes.wisc.edu>) and/or meet with the advisor (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffjFEt.html>) at any time.

## DEGREES/MAJORS/CERTIFICATES

- Classical Humanities, B.A. (p. 501)
- Classical Humanities, B.S. (p. 506)
- Classical Studies, Certificate (p. 510)
- Classics, B.A. (p. 513)
- Classics, B.S. (p. 516)
- Latin, B.A. (p. 519)
- Latin, B.S. (p. 522)

## PEOPLE

### FACULTY

William Aylward (<http://canes.wisc.edu/aylward-william.htm>)

Jeffrey Beneker (<http://canes.wisc.edu/jeffrey-beneker.htm>)

Jeffrey Blakely (<http://canes.wisc.edu/178.htm>)

William Brockliss (<http://canes.wisc.edu/william-brockliss.htm>)

Alex Dressler (<http://canes.wisc.edu/alex-dressler.htm>)

Jeremy M. Hutton (<http://canes.wisc.edu/jeremy-hutton.htm>)

Alice Mandell (<http://canes.wisc.edu/176.htm>)

Laura McClure (<http://canes.wisc.edu/laura-mcclure.htm>)

J C McKeown (<http://canes.wisc.edu/jc-mckeown.htm>)

Grant Nelsestuen (<http://canes.wisc.edu/grant-nelsestuen.htm>)

Nandini Pandey (<http://canes.wisc.edu/nandini-pandey.htm>)

Mike Vanden Heuvel (<http://canes.wisc.edu/vanden-heuvel.htm>)

### EMERITUS FACULTY

Ronald L. Troxel (<http://canes.wisc.edu/ron-troxel.htm>)

### ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following competitions to classical humanities, classics, and Latin majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is only open to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open only to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

## CLASSICAL HUMANITIES, B.A.

The classical humanities major allows students to combine their love of ancient language with the exploration of the literature, civilization, and culture of Greece, Rome, and the Ancient Near East.

Students study Greek, Latin, or Biblical Hebrew in two or four semester combinations, and they choose from a wide selection of complementary courses, including topics in art, architecture, archaeology, history, literature, philosophy, and politics. In addition to supporting their language study, these subjects enable our majors to develop a more comprehensive understanding of the ancient world.

To support classical humanities majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under "Resources and Scholarships."

### HOW TO GET IN

Declaring the classical humanities major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

##### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

### REQUIREMENTS FOR THE MAJOR

The classical humanities major consists of a combination of courses in ancient culture and classical languages. The major requirements are divided into three areas: Language, Literature and Culture, and Seminar.

Students typically earn 32–34 credits from these three areas to complete the major requirements; 18 credits are required in the Literature and Culture, and Seminar categories. The requirements for the major are:

### LANGUAGE

Complete one of the following language tracks: <sup>1</sup>

Code	Title	Credits
4 semesters of Greek		14 credits
GREEK 103 & GREEK 104 & GREEK 305 & GREEK 306	First Semester Greek and Second Semester Greek and Intermediate Greek and Intermediate Greek	
4 semesters of Latin		16 credits
LATIN 103 & LATIN 104 & LATIN 203 & LATIN 204	Elementary Latin and Elementary Latin and Intermediate Latin and Introduction to Latin Literature	
2 semesters of Greek, 2 semesters of Latin		16 credits
GREEK 103 & GREEK 104 & LATIN 103 & LATIN 104	First Semester Greek and Second Semester Greek and Elementary Latin and Elementary Latin	
2 semesters of Hebrew–Bible, 2 semesters of Greek		16 credits
HEBR-BIB 103 & HEBR-BIB 104 & GREEK 103 & GREEK 104	Elementary Biblical Hebrew, I and Elementary Biblical Hebrew, II and First Semester Greek and Second Semester Greek	
2 semesters of Hebrew–Bible, 2 semesters of Latin		16 credits
HEBR-BIB 103 & HEBR-BIB 104 & LATIN 103 & LATIN 104	Elementary Biblical Hebrew, I and Elementary Biblical Hebrew, II and Elementary Latin and Elementary Latin	

<sup>1</sup> Students who place into higher than the first-semester language course may be eligible to earn retroactive language credits (p. 289).

### LITERATURE AND CULTURE

Code	Title	Credits
<b>15 credits, of which 9 credits must be numbered 300 and higher:</b>		15
CLASSICS 100	Legacy of Greece and Rome in Modern Culture	
CLASSICS/ HISTORY 110	The Ancient Mediterranean	
CLASSICS 150	Ancient Greek and Roman Monsters	
CLASSICS 205	Greek and Latin Origins of Medical Terms	
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology	

CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	CLASSICS 691	Senior Thesis
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	CLASSICS 692	Senior Thesis
CLASSICS 320	The Greeks	CLASSICS 699	Directed Reading
CLASSICS 322	The Romans	GREEK 401	Greek Drama
CLASSICS 330	Ancient Epic	GREEK 402	Greek Drama and Lyric Poetry
CLASSICS/HEBR- BIB/JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	GREEK 505	Elementary Prose Composition
CLASSICS/ JEWISH/ RELIG ST 335	King David in History and Tradition	GREEK 510	Homer
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	GREEK 511	Hesiod
CLASSICS/ JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	GREEK 512	Greek Lyric Poets
CLASSICS/ ITALIAN 350	Rome: The Changing Shape of the Eternal City	GREEK 520	Greek Comedy
CLASSICS/ GEN&WS 351	Gender and Sexuality in the Classical World	GREEK 521	Greek Tragedy
CLASSICS 370	Classical Mythology	GREEK 532	Thucydides
CLASSICS 371	Topics in Greek Culture	GREEK 541	Plato
CLASSICS 372	Topics in Roman Culture	GREEK 551	Attic Orators
CLASSICS 373	Topics in Classical Culture	GREEK 560	Hellenistic Greek
CLASSICS 376	Love Poetry of the Ancient Mediterranean	GREEK 564	Plutarch
CLASSICS 379	Eureka! Technology and Practice in the Ancient World	GREEK 681	Honors Thesis
CLASSICS 430	Topics in Classical Archaeology	GREEK 682	Senior Honors Thesis
CLASSICS/ JEWISH 451	Biblical Archaeology	GREEK 691	Senior Thesis
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	GREEK 692	Senior Thesis
CLASSICS/ FRENCH/ HISTORY/ ITALIAN/ MIEVEAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	GREEK 699	Directed Study
CLASSICS 554	Classical Backgrounds to English Literature	LATIN 301	Latin Literature of the Roman Republic
CLASSICS 556	The Literature of Ancient Rome	LATIN 302	Latin Literature of the Roman Empire
CLASSICS/ HIST SCI/ HISTORY/ MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	LATIN 505	Elementary Prose Composition
CLASSICS 568	Topics in Classical Literature	LATIN 515	Vergil
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World	LATIN 519	Latin Poetry
CLASSICS 602	The Ancient Mediterranean City	LATIN 520	Roman Drama
CLASSICS 681	Senior Honors Thesis	LATIN 521	Roman Elegy
CLASSICS 682	Senior Honors Thesis	LATIN 522	Roman Lyric Poetry
		LATIN 523	Roman Satire
		LATIN 524	Roman Novel
		LATIN 539	Latin Historical Writers
		LATIN 549	Latin Philosophical Writers
		LATIN 559	Latin Oratory
		LATIN/ MIEVEAL 563	Mediaeval Latin
		LATIN 681	Honors Thesis
		LATIN 682	Senior Honors Thesis
		LATIN 691	Senior Thesis
		LATIN 692	Senior Thesis
		LATIN 699	Directed Study
		ART HIST 201	History of Western Art I: From Pyramids to Cathedrals
		ART HIST 302	Greek Sculpture
		ART HIST 310	Early Christian and Byzantine Art
		ART HIST 405	Cities and Sanctuaries of Ancient Greece
		ART HIST 505	Proseminar in Ancient Art
		HISTORY/ MIEVEAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)

HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	
HISTORY 303	A History of Greek Civilization	
HISTORY 307	A History of Rome	
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science	
ILS 203	Western Culture: Literature and the Arts I	
ILS 205	Western Culture: Political, Economic, and Social Thought I	
PHILOS 430	History of Ancient Philosophy	
PHILOS 454	Classical Philosophers	
POLI SCI 265	Development of Ancient and Medieval Western Political Thought	
Total Credits		15

## SEMINAR

Code	Title	Credits
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World <sup>2</sup>	3
Total Credits		3

<sup>2</sup> The Undergraduate Seminar course is typically offered every spring semester; it is normally taken senior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all CLASSICS, GREEK and LATIN courses and all other courses in the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>3</sup>

15 credits in CLASSICS, GREEK and LATIN, taken on the UW–Madison campus

<sup>3</sup> Courses with intermediate and advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Classical Humanities Major in consultation with the Classical Humanities undergraduate advisor.

## HONORS IN THE CLASSICAL HUMANITIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Classical Humanities students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all CLASSICS, LATIN, and GREEK courses, and all courses accepted in the major, at the intermediate or advanced level
- Complete the following coursework:
  - At least 9 credits, taken for Honors, from the list of Literature and Culture requirements above
  - A two-semester Senior Honors Thesis in CLASSICS 681 Senior Honors Thesis and CLASSICS 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Gain knowledge of the ancient Roman, Greek, and Near Eastern civilizations.
2. Gain competency with contemporary scholarly questions surrounding their historical significance and interpretation.
3. Develop critical methodologies, including the ability to engage in source criticism and to approach ancient civilizations on their own terms.

## ADVISING AND CAREERS

### ADVISING

**How does the classical humanities major fit into my educational goals?**

While there are a wide variety of reasons to visit your major advisor, there seem to be two recurring questions:

1. Can I complete the major during the time I have left at UW?
2. Which classes will be offered in the future?

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Ancient Greek and Roman Monsters* and *Introduction to Biblical Literature* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style—e.g., do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements



- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading resumes and cover letters

Ready to meet with the CANES advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjfiFEtg.html>).

## CAREERS

While many students have a difficult time believing it, a humanities major such as ours enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is language acquisition. Study of Greek, Latin, or Biblical Hebrew sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance, since they are such difficult languages to learn. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career. Visit our website (<http://canes.wisc.edu/230.htm>) for more information.

## PEOPLE

### FACULTY

William Aylward (<http://canes.wisc.edu/aylward-william.htm>)

Jeffrey Beneker (<http://canes.wisc.edu/jeffrey-beneker.htm>)

Jeffrey Blakely (<http://canes.wisc.edu/178.htm>)

William Brockliss (<http://canes.wisc.edu/william-brockliss.htm>)

Alex Dressler (<http://canes.wisc.edu/alex-dressler.htm>)

Jeremy M. Hutton (<http://canes.wisc.edu/jeremy-hutton.htm>)

Alice Mandell (<http://canes.wisc.edu/176.htm>)

Laura McClure (<http://canes.wisc.edu/laura-mcclure.htm>)

J C McKeown (<http://canes.wisc.edu/jc-mckeown.htm>)

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Nandini Pandey (<http://canes.wisc.edu/nandini-pandey.htm>)

Mike Vanden Heuvel (<http://canes.wisc.edu/vanden-heuval.htm>)

## EMERITUS FACULTY

Ronald L. Troxel (<http://canes.wisc.edu/ron-troxel.htm>)

## ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following competitions to classical humanities, classics, and Latin majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is only open to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open only to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality

of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

## CLASSICAL HUMANITIES, B.S.

The classical humanities major allows students to combine their love of ancient language with the exploration of the literature, civilization, and culture of Greece, Rome, and the Ancient Near East.

Students study Greek, Latin, or Biblical Hebrew in two or four semester combinations, and they choose from a wide selection of complementary courses, including topics in art, architecture, archaeology, history, literature, philosophy, and politics. In addition to supporting their language study, these subjects enable our majors to develop a more comprehensive understanding of the ancient world.

To support classical humanities majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under "Resources and Scholarships."

### HOW TO GET IN

Declaring the classical humanities major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall  
30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The classical humanities major consists of a combination of courses in ancient culture and classical languages. The major requirements are divided into three areas: Language, Literature and Culture, and Seminar.

Students typically earn 32–34 credits from these three areas to complete the major requirements; 18 credits are required in the Literature and Culture, and Seminar categories. The requirements for the major are:

### LANGUAGE

Complete one of the following language tracks: <sup>1</sup>

Code	Title	Credits
4 semesters of Greek		14 credits
GREEK 103 & GREEK 104 & GREEK 305 & GREEK 306	First Semester Greek and Second Semester Greek and Intermediate Greek and Intermediate Greek	
4 semesters of Latin		16 credits
LATIN 103 & LATIN 104 & LATIN 203 & LATIN 204	Elementary Latin and Elementary Latin and Intermediate Latin and Introduction to Latin Literature	
2 semesters of Greek, 2 semesters of Latin		16 credits
GREEK 103 & GREEK 104 & LATIN 103 & LATIN 104	First Semester Greek and Second Semester Greek and Elementary Latin and Elementary Latin	
2 semesters of Hebrew–Bible, 2 semesters of Greek		16 credits
HEBR-BIB 103 & HEBR-BIB 104 & GREEK 103 & GREEK 104	Elementary Biblical Hebrew, I and Elementary Biblical Hebrew, II and First Semester Greek and Second Semester Greek	
2 semesters of Hebrew–Bible, 2 semesters of Latin		16 credits
HEBR-BIB 103 & HEBR-BIB 104 & LATIN 103 & LATIN 104	Elementary Biblical Hebrew, I and Elementary Biblical Hebrew, II and Elementary Latin and Elementary Latin	

<sup>1</sup> Students who place into higher than the first-semester language course may be eligible to earn retroactive language credits (p. 289).

### LITERATURE AND CULTURE

Code	Title	Credits
<b>15 credits, of which 9 credits must be numbered 300 and higher:</b>		15
CLASSICS 100	Legacy of Greece and Rome in Modern Culture	
CLASSICS/ HISTORY 110	The Ancient Mediterranean	
CLASSICS 150	Ancient Greek and Roman Monsters	
CLASSICS 205	Greek and Latin Origins of Medical Terms	

CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome
CLASSICS 320	The Greeks
CLASSICS 322	The Romans
CLASSICS 330	Ancient Epic
CLASSICS/HEBR- BIB/JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible
CLASSICS/ JEWISH/ RELIG ST 335	King David in History and Tradition
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds
CLASSICS/ JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period
CLASSICS/ ITALIAN 350	Rome: The Changing Shape of the Eternal City
CLASSICS/ GEN&WS 351	Gender and Sexuality in the Classical World
CLASSICS 370	Classical Mythology
CLASSICS 371	Topics in Greek Culture
CLASSICS 372	Topics in Roman Culture
CLASSICS 373	Topics in Classical Culture
CLASSICS 376	Love Poetry of the Ancient Mediterranean
CLASSICS 379	Eureka! Technology and Practice in the Ancient World
CLASSICS 430	Topics in Classical Archaeology
CLASSICS/ JEWISH 451	Biblical Archaeology
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean
CLASSICS/ FRENCH/ HISTORY/ ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization
CLASSICS 554	Classical Backgrounds to English Literature
CLASSICS 556	The Literature of Ancient Rome

CLASSICS/ HIST SCI/ HISTORY/ MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy
CLASSICS 568	Topics in Classical Literature
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World
CLASSICS 602	The Ancient Mediterranean City
CLASSICS 681	Senior Honors Thesis
CLASSICS 682	Senior Honors Thesis
CLASSICS 691	Senior Thesis
CLASSICS 692	Senior Thesis
CLASSICS 699	Directed Reading
GREEK 401	Greek Drama
GREEK 402	Greek Drama and Lyric Poetry
GREEK 505	Elementary Prose Composition
GREEK 510	Homer
GREEK 511	Hesiod
GREEK 512	Greek Lyric Poets
GREEK 520	Greek Comedy
GREEK 521	Greek Tragedy
GREEK 532	Thucydides
GREEK 541	Plato
GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek
GREEK 564	Plutarch
GREEK 681	Honors Thesis
GREEK 682	Senior Honors Thesis
GREEK 691	Senior Thesis
GREEK 692	Senior Thesis
GREEK 699	Directed Study
LATIN 301	Latin Literature of the Roman Republic
LATIN 302	Latin Literature of the Roman Empire
LATIN 505	Elementary Prose Composition
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIEVAL 563	Mediaeval Latin
LATIN 681	Honors Thesis
LATIN 682	Senior Honors Thesis
LATIN 691	Senior Thesis
LATIN 692	Senior Thesis

LATIN 699	Directed Study
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals
ART HIST 302	Greek Sculpture
ART HIST 310	Early Christian and Byzantine Art
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 505	Proseminar in Ancient Art
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500
HISTORY 303	A History of Greek Civilization
HISTORY 307	A History of Rome
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science
ILS 203	Western Culture: Literature and the Arts I
ILS 205	Western Culture: Political, Economic, and Social Thought I
PHILOS 430	History of Ancient Philosophy
PHILOS 454	Classical Philosophers
POLI SCI 265	Development of Ancient and Medieval Western Political Thought

Total Credits 15

## SEMINAR

Code	Title	Credits
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World <sup>2</sup>	3

Total Credits 3

<sup>2</sup> The Undergraduate Seminar course is typically offered every spring semester; it is normally taken senior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all CLASSICS, GREEK and LATIN courses and all other courses in the major

2.000 GPA on 15 upper-level major credits, taken in residence <sup>3</sup>

15 credits in CLASSICS, GREEK and LATIN, taken on the UW–Madison campus

<sup>3</sup> Courses with intermediate and advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Classical Humanities Major in consultation with the Classical Humanities undergraduate advisor.

## HONORS IN THE CLASSICAL HUMANITIES MAJOR REQUIREMENTS

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#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

## CLASSICAL STUDIES, CERTIFICATE

The classical studies certificate allows students to explore the literature, civilization, and culture of the ancient world. It is especially ideal for students drawn to Greek, Roman or Ancient Near Eastern society but less interested in language study.

Both the flexibility and variety are additional features that make the certificate attractive to students. Course options include topics in art, architecture, archaeology, history, literature, philosophy, and politics. Students are free to explore their individual interests on the way to developing a more comprehensive understanding of the ancient world.

Finally, in addition to completing requirements for the certificate, many of the courses fulfill *General Education* requirements, such as Communications Part B, and *Breadth* requirements, such as Humanities and Literature.

### HOW TO GET IN

Declaring the classical studies certificate is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

Please note: Classical humanities majors are **not** allowed to declare the certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE IN CLASSICAL STUDIES

In order to receive the Certificate in Classical Studies, students are required to complete:

Code	Title	Credits
<b>18 total credits in CLASSICS or select courses from related disciplines, chosen from the Course Lists below.</b>		<b>18</b>
6 credits may be numbered below 300		
12 credits must be numbered 300 and higher		

#### Residence and Quality of Work:

Students must maintain a 2.000 GPA in all courses required for the Certificate.

At least 9 credits for the Certificate must be earned In Residence.

### CLASSICS COURSES

Code	Title	Credits
CLASSICS 100	Legacy of Greece and Rome in Modern Culture	3
CLASSICS/ HISTORY 110	The Ancient Mediterranean	4
CLASSICS 205	Greek and Latin Origins of Medical Terms	3
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	3-4
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	3-4
CLASSICS 320	The Greeks	3
CLASSICS 322	The Romans	3
CLASSICS/ ITALIAN 350	Rome: The Changing Shape of the Eternal City	3-4
CLASSICS/ GEN&WS 351	Gender and Sexuality in the Classical World	3-4
CLASSICS 370	Classical Mythology	3
CLASSICS 371	Topics in Greek Culture	1-3
CLASSICS 372	Topics in Roman Culture	1-3
CLASSICS 373	Topics in Classical Culture	1-3
CLASSICS 376	Love Poetry of the Ancient Mediterranean	3
CLASSICS 379	Eureka! Technology and Practice in the Ancient World	3
CLASSICS 430	Topics in Classical Archaeology	3
CLASSICS/HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	3
CLASSICS 554	Classical Backgrounds to English Literature	3
CLASSICS 556	The Literature of Ancient Rome	3

CLASSICS/HIST SCI/ HISTORY/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World	3
CLASSICS 602	The Ancient Mediterranean City	3
CLASSICS 150	Ancient Greek and Roman Monsters	3
CLASSICS/JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
CLASSICS/JEWISH/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology	4
CLASSICS 330	Ancient Epic	3
CLASSICS/HEBR- BIB/JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
CLASSICS/JEWISH/ RELIG ST 335	King David in History and Tradition	3
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	3
CLASSICS/JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
CLASSICS/ JEWISH 451	Biblical Archaeology	3
CLASSICS/FRENCH/ HISTORY/ITALIAN/ MIEVEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
CLASSICS 568	Topics in Classical Literature	1-3
CLASSICS 699	Directed Reading	1-3

### COURSES IN RELATED DISCIPLINES

Code	Title	Credits
<b>Art History</b>		
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	3-4
ART HIST 301	Myths, Loves, and Lives in Greek Vases	3-4
ART HIST 302	Greek Sculpture	3-4
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	3-4
ART HIST 310	Early Christian and Byzantine Art	3-4
ART HIST 405	Cities and Sanctuaries of Ancient Greece	3
ART HIST 505	Proseminar in Ancient Art	3
<b>History</b>		
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MIEVEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4

HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
<b>History of Science</b>		
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science	3
<b>Integrated Liberal Studies</b>		
ILS 203	Western Culture: Literature and the Arts I	3
ILS 205	Western Culture: Political, Economic, and Social Thought I	3
<b>Philosophy</b>		
PHILOS 430	History of Ancient Philosophy	3-4
PHILOS 454	Classical Philosophers	3
<b>Political Science</b>		
POLI SCI 265	Development of Ancient and Medieval Western Political Thought	3-4

- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about grad school
- Proofreading resumes and cover letters

Ready to meet with an Advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>)!

## CAREERS

While many students have a difficult time believing it, a background in the humanities enables students to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career!

Visit our website (<http://canes.wisc.edu/230.htm>) to learn more.

## PEOPLE

### FACULTY

William Aylward (<http://canes.wisc.edu/aylward-william.htm>)

Jeffrey Beneker (<http://canes.wisc.edu/jeffrey-beneker.htm>)

Jeffrey Blakely (<http://canes.wisc.edu/178.htm>)

William Brockliss (<http://canes.wisc.edu/william-brockliss.htm>)

Alex Dressler (<http://canes.wisc.edu/alex-dressler.htm>)

Jeremy M. Hutton (<http://canes.wisc.edu/jeremy-hutton.htm>)

Alice Mandell (<http://canes.wisc.edu/176.htm>)

Laura McClure (<http://canes.wisc.edu/laura-mcclure.htm>)

## LEARNING OUTCOMES

1. Gain knowledge of the ancient Roman, Greek, and Near Eastern civilizations.
2. Gain competency with contemporary scholarly questions surrounding their historical significance and interpretation.
3. Develop critical methodologies, including the ability to engage in source criticism and to approach ancient civilizations on their own terms.

## ADVISING AND CAREERS

### ADVISING

**How does the classical humanities certificate fit into my educational goals?**

While there are a wide variety of reasons to visit an advisor, there seem to be two recurring questions:

1. Can I complete the certificate during the time I have left at UW?
2. Which classes will be offered in the future?

If you like to plan, seeing an advisor is very important; it can make the difference between fitting in *Ancient Greek and Roman Monsters* and *Introduction to Biblical Literature* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of an advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style e.g. do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General education requirements
- Breadth requirements



J C McKeown (<http://canes.wisc.edu/jc-mckeown.htm>)

Grant Nelsestuen (<http://canes.wisc.edu/grant-nelsestuen.htm>)

Nandini Pandey (<http://canes.wisc.edu/nandini-pandey.htm>)

Mike Vanden Heuvel (<http://canes.wisc.edu/vanden-heuvel.htm>)

## EMERITUS FACULTY

Ronald L. Troxel (<http://canes.wisc.edu/ron-troxel.htm>)

## ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Advisor/Student Services Coordinator

## CLASSICS, B.A.

The classics major allows students to achieve proficiency in *both* Greek and Latin. Majors who choose an emphasis in Greek, also complete four semesters of Latin, and likewise, those who choose an emphasis in Latin, complete four semesters of Greek as well.

Such comprehensive training enables classics majors to explore Greek and Roman literature in the original languages. From a practical standpoint, students develop analytical and critical thinking skills, and they may also become thoughtful and gifted writers in their native languages thanks to the intensive grammatical training required by the study of ancient languages.

To support our classics majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under "Resources and Scholarships."

## HOW TO GET IN

Declaring the classics major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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	30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

A major in classics allows students to place primary emphasis on learning Greek or Latin, yet gain some language training in both. Both tracks total 23 credits, and assume students have taken the first two semesters of both languages prior to entering the major.

### CLASSICS–LATIN EMPHASIS

Code	Title	Credits
17 credits of Latin beyond the first year		
LATIN 203	Intermediate Latin	4
LATIN 204	Introduction to Latin Literature	4
LATIN 301	Latin Literature of the Roman Republic	3
LATIN 302	Latin Literature of the Roman Empire	3
One Latin course numbered 500 and above		
6 credits of Greek beyond the first year		
GREEK 305	Intermediate Greek	3
GREEK 306	Intermediate Greek	3
Total Credits		23

### CLASSICS–GREEK EMPHASIS

Code	Title	Credits
15 credits of Greek beyond the first year		
GREEK 305	Intermediate Greek	3
GREEK 306	Intermediate Greek	3
GREEK 401	Greek Drama	3
GREEK 402	Greek Drama and Lyric Poetry	3
One Greek course numbered 500 and above		
8 credits of Latin beyond the first year		
LATIN 203	Intermediate Latin	4
LATIN 204	Introduction to Latin Literature	4
Total Credits		23

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in all CLASSICS and major courses

2.000 GPA on at least 15 credits of upper-level work in the major.<sup>1</sup>

15 credits in CLASSICS, taken at UW–Madison.

<sup>1</sup> Upper-level work in the major includes any intermediate or advanced CLASSICS or major course.

## HONORS IN THE MAJOR

Students may declare Honors in the Classics Major in consultation with the Classics undergraduate advisor.

### HONORS IN THE CLASSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Classics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all CLASSICS courses, and all courses accepted in the major, at the intermediate or advanced level
- Complete the following coursework:
  - CLASSICS 591 Undergraduate Seminar: Approaches to the Classical World and
  - A two-semester Senior Honors Thesis in CLASSICS 681 Senior Honors Thesis and COM ARTS 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Gain knowledge of the ancient languages.
2. Develop close reading skills that emphasize accuracy and precision in translation.
3. Develop critical reading skills, especially the ability to engage in source criticism.
4. Gain competency with core texts of the ancient western and near eastern literary canon.

## ADVISING AND CAREERS

### ADVISING

How does the classics major fit into my educational goals?

While there are a wide variety of reasons to visit your major advisor, there seem to be two recurring questions:

1. Can I complete the major during the time I have left at UW?
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If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in a course on *Sallust* and *Greek Comedy* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style—e.g., do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about grad school
- Proofreading resumes and cover letters

Ready to meet with the CANES advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjFjFEtg.html>).

## CAREERS

While many students have a difficult time believing it, a humanities major such as ours, enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is **language acquisition**. Your study of Greek and Latin sets you apart and demonstrates your willingness to explore and expand your understanding

of history and culture. In addition, the study of ancient languages shows discipline and perseverance, since they are such difficult languages to learn. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career. Visit our website (<http://canes.wisc.edu/230.htm>) for more information.

## PEOPLE

### FACULTY

William Aylward (<http://canes.wisc.edu/aylward-william.htm>)

Jeffrey Beneker (<http://canes.wisc.edu/jeffrey-beneker.htm>)

Jeffrey Blakely (<http://canes.wisc.edu/178.htm>)

William Brockliss (<http://canes.wisc.edu/william-brockliss.htm>)

Alex Dressler (<http://canes.wisc.edu/alex-dressler.htm>)

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Alice Mandell (<http://canes.wisc.edu/176.htm>)

Laura McClure (<http://canes.wisc.edu/laura-mcclure.htm>)

J C McKeown (<http://canes.wisc.edu/jc-mckeown.htm>)

Grant Nelsestuen (<http://canes.wisc.edu/grant-nelsestuen.htm>)

Nandini Pandey (<http://canes.wisc.edu/nandini-pandey.htm>)

Mike Vanden Heuvel (<http://canes.wisc.edu/vanden-heuval.htm>)

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Ronald L. Troxel (<http://canes.wisc.edu/ron-troxel.htm>)

### ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following competitions to classical humanities, classics, and Latin majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is only open to classics, classical humanities, and Latin majors. Students should apply via [Scholarships@UW](mailto:Scholarships@UW) (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

## GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open only to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

## LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

## PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

## CLASSICS, B.S.

The classics major allows students to achieve proficiency in *both* Greek and Latin. Majors who choose an emphasis in Greek, also complete four semesters of Latin, and likewise, those who choose an emphasis in Latin, complete four semesters of Greek as well.

Such comprehensive training enables classics majors to explore Greek and Roman literature in the original languages. From a practical standpoint, students develop analytical and critical thinking skills, and they may also become thoughtful and gifted writers in their native languages thanks to the intensive grammatical training required by the study of ancient languages.

To support our classics majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under "Resources and Scholarships."

## HOW TO GET IN

Declaring the classics major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffETg.html>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

A major in classics allows students to place primary emphasis on learning Greek or Latin, yet gain some language training in both. Both tracks total 23 credits, and assume students have taken the first two semesters of both languages prior to entering the major.

### CLASSICS–LATIN EMPHASIS

Code	Title	Credits
17 credits of Latin beyond the first year		
LATIN 203	Intermediate Latin	4
LATIN 204	Introduction to Latin Literature	4
LATIN 301	Latin Literature of the Roman Republic	3
LATIN 302	Latin Literature of the Roman Empire	3
One Latin course numbered 500 and above		
6 credits of Greek beyond the first year		
GREEK 305	Intermediate Greek	3
GREEK 306	Intermediate Greek	3
Total Credits		23

### CLASSICS–GREEK EMPHASIS

Code	Title	Credits
15 credits of Greek beyond the first year		
GREEK 305	Intermediate Greek	3
GREEK 306	Intermediate Greek	3
GREEK 401	Greek Drama	3
GREEK 402	Greek Drama and Lyric Poetry	3

One Greek course numbered 500 and above	3	
8 credits of Latin beyond the first year		
LATIN 203	Intermediate Latin	4
LATIN 204	Introduction to Latin Literature	4
Total Credits		23

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

2.000 GPA in all CLASSICS and major courses

2.000 GPA on at least 15 credits of upper-level work in the major.<sup>1</sup>

15 credits in CLASSICS, taken at UW–Madison.

<sup>1</sup> Upper-level work in the major includes any intermediate or advanced CLASSICS or major course.

## HONORS IN THE MAJOR

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## HONORS IN THE CLASSICS MAJOR REQUIREMENTS

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## UNIVERSITY DEGREE REQUIREMENTS

Requirements Detail	
Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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1. Gain knowledge of the ancient languages.
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## ADVISING AND CAREERS

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- Breadth requirements
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critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

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- expanded world view and exposure to new ideas/ways of thinking
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- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is **language acquisition**. Your study of Greek and Latin sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance, since they are such difficult languages to learn. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career. Visit our website (<http://canes.wisc.edu/230.htm>) for more information.

## PEOPLE

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Grant Nelsestuen (<http://canes.wisc.edu/grant-nelsestuen.htm>)

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Toni Landis, Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following competitions to classical humanities, classics, and Latin majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is only open to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open only to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

### LATIN, B.A.

Students who pursue the Latin major read a wide variety of authors and can expect to achieve a high level of competency in the ancient language of the Romans. Coursework includes such favorites as Vergil, Ovid, Cicero, Julius Caesar, and Catullus, but students can expect to be able to read other authors like the historians (Livy, Sallust, and Tacitus) and genres like lyric, satire, and drama.

To support Latin majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under Resources and Scholarships.

For those who are interested in teaching Latin at the secondary level, the School of Education (p. 1379) offers certification. Students of this program take Latin courses in our department, while receiving their teacher training in the School of Education.

### HOW TO GET IN

Declaring the Latin major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjFjFEtg.html>).

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

##### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

The **Latin** major requires 26 total credits of coursework beyond the first two semesters of Latin.

Majors interested in teaching Latin in high school should consult the undergraduate advisor and the School of Education (p. 1226) about requirements for teaching certification.

*Note about Language:* The College of Letters & Science will award degree credit for foreign language work successfully completed in high school under certain circumstances and if an additional foreign language course is taken at UW–Madison. For more information, consult the **Retroactive Credits** policy under Policies and Regulations (p. 289).

Code	Title	Credits
LATIN 203 & LATIN 204	Intermediate Latin and Introduction to Latin Literature	8
LATIN 301 & LATIN 302	Latin Literature of the Roman Republic and Latin Literature of the Roman Empire	6
Select four courses at the 500 level or above		12
LATIN 505	Elementary Prose Composition	
LATIN 515	Vergil	
LATIN 519	Latin Poetry	
LATIN 520	Roman Drama	
LATIN 521	Roman Elegy	
LATIN 522	Roman Lyric Poetry	
LATIN 523	Roman Satire	
LATIN 524	Roman Novel	
LATIN 539	Latin Historical Writers	
LATIN 549	Latin Philosophical Writers	
LATIN 559	Latin Oratory	
LATIN/MEDIEVAL 563	Mediaeval Latin	
LATIN 681	Honors Thesis	
LATIN 682	Senior Honors Thesis	
LATIN 691	Senior Thesis	
LATIN 692	Senior Thesis	
LATIN 699	Directed Study	
Additional Electives to reach the 26 credit minimum for the major <sup>1</sup>		
<b>Total Credits</b>		<b>26</b>

<sup>1</sup> LATIN 203 through LATIN 699 can be used as additional electives to meet the 26 credit minimum.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LATIN courses and courses that count toward the major

2.000 GPA on 15 upper-level credits in residence<sup>1</sup>

15 credits in LATIN, taken on campus

<sup>1</sup> LATIN courses marked as Intermediate or Advanced count as Upper Level in the Major.

### HONORS IN THE MAJOR

Students may declare Honors in the Latin Major in consultation with the departmental undergraduate advisor.



## HONORS IN THE LATIN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Latin students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 in all major courses at the intermediate or advanced level
- Complete CLASSICS 591 Undergraduate Seminar: Approaches to the Classical World
- Complete a two-semester Senior Honors Thesis in CLASSICS 681 Senior Honors Thesis and CLASSICS 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Gain knowledge of the ancient languages.
2. Develop close reading skills that emphasize accuracy and precision in translation.
3. Develop critical reading skills, especially the ability to engage in source criticism.
4. Gain competency with core texts of the ancient western and near eastern literary canon.

## ADVISING AND CAREERS

### ADVISING

#### How does the Latin major fit into my educational goals?

While there are a wide variety of reasons to visit your major advisor, there seem to be two recurring questions:

1. Can I complete the major during the time I have left at UW?
2. Which classes will be offered in the future?

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Sallust* and *Lucan* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style e.g. do you prefer multiple choice or essays? Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about grad school
- Proofreading resumes and cover letters

Ready to meet with the CANES advisor? Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

## CAREERS

While many students have a difficult time believing it, a humanities major such as ours, enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
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## RESOURCES AND SCHOLARSHIPS

### DEPARTMENTAL UNDERGRADUATE SCHOLARSHIPS AND PRIZES

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A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

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## LATIN, B.S.

Students who pursue the Latin major read a wide variety of authors and can expect to achieve a high level of competency in the ancient language of the Romans. Coursework includes such favorites as Vergil, Ovid, Cicero, Julius Caesar, and Catullus, but students can expect to be able to read other authors like the historians (Livy, Sallust, and Tacitus) and genres like lyric, satire, and drama.

To support Latin majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under Resources and Scholarships.

For those who are interested in teaching Latin at the secondary level, the School of Education (p. 1379) offers certification. Students of this program take Latin courses in our department, while receiving their teacher training in the School of Education.

## HOW TO GET IN

Declaring the Latin major is as easy as meeting with the CANES advisor. Make an appointment today (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffEtg.html>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

The **Latin** major requires 26 total credits of coursework beyond the first two semesters of Latin.

Majors interested in teaching Latin in high school should consult the undergraduate advisor and the School of Education (p. 1226) about requirements for teaching certification.

*Note about Language:* The College of Letters & Science will award degree credit for foreign language work successfully completed in high school under certain circumstances and if an additional foreign language course is taken at UW–Madison. For more information, consult the **Retroactive Credits** policy under Policies and Regulations (p. 289).

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LATIN 691	Senior Thesis
LATIN 692	Senior Thesis
LATIN 699	Directed Study

Additional Electives to reach the 26 credit minimum for the major<sup>1</sup>

Total Credits 26

<sup>1</sup> LATIN 203 through LATIN 699 can be used as additional electives to meet the 26 credit minimum.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LATIN courses and courses that count toward the major

2.000 GPA on 15 upper-level credits in residence<sup>1</sup>

15 credits in LATIN, taken on campus

<sup>1</sup> LATIN courses marked as Intermediate or Advanced count as Upper Level in the Major.

## HONORS IN THE MAJOR

Students may declare Honors in the Latin Major in consultation with the departmental undergraduate advisor.

### HONORS IN THE LATIN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Latin students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 in all major courses at the intermediate or advanced level
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- Complete a two-semester Senior Honors Thesis in CLASSICS 681 Senior Honors Thesis and CLASSICS 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

## LEARNING OUTCOMES

1. Gain knowledge of the ancient languages.
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## ADVISING AND CAREERS

### ADVISING

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- Connecting with tutors
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- Talking about grad school
- Proofreading resumes and cover letters

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## CAREERS

While many students have a difficult time believing it, a humanities major such as ours, enables students who complete it to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

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Alex Dressler (<http://canes.wisc.edu/alex-dressler.htm>)

Jeremy M. Hutton (<http://canes.wisc.edu/jeremy-hutton.htm>)

Alice Mandell (<http://canes.wisc.edu/176.htm>)

Laura McClure (<http://canes.wisc.edu/laura-mcclure.htm>)

J C McKeown (<http://canes.wisc.edu/jc-mckeown.htm>)

Grant Nelsestuen (<http://canes.wisc.edu/grant-nelsestuen.htm>)

Nandini Pandey (<http://canes.wisc.edu/nandini-pandey.htm>)

Mike Vanden Heuvel (<http://canes.wisc.edu/vanden-heuvel.htm>)

## EMERITUS FACULTY

Ronald L. Troxel (<http://canes.wisc.edu/ron-troxel.htm>)

## ACADEMIC STAFF

Bill Bach, Department Administrator

Toni Landis, Advisor/Student Services Coordinator

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following competitions to classical humanities, classics, and Latin majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is only open to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open only to classics, classical humanities, and Latin majors. Students should apply via Scholarships@UW (which can be accessed through their MyUW page). Generally, the online application is open in early November with a deadline for submission in early February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students

who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member.

To learn more, visit our website (<http://canes.wisc.edu/classics-study-abroad.htm>).

## COMMUNICATION ARTS

Faculty in the Department of Communication Arts study and teach about the principal modes and media of communication. Areas of research include film, media and cultural studies, rhetoric, and communication science. At the undergraduate level, these four areas are combined into two concentrations:

1. Communication Science and Rhetorical Studies
2. Radio–Television–Film

Courses deal with a wide range of communicative phenomena and approach them from a variety of functional, aesthetic, and theoretical perspectives. The curriculum is designed to foster understanding of communication processes, improve communication and digital literacy skills, and develop the capacity for critical appraisal and reflection.

Communication arts majors should consult one of the department's undergraduate academic advisors to discuss requirements and courses each semester.

## DIGITAL STUDIES CERTIFICATE

The digital studies certificate allows students seeking more experience with digital media and other technologies to select courses from across several departments, including communication arts, to create their own individualized digital curriculum. See the Digital Studies (p. 536) section in this Guide for requirements and course options.

## DEGREES/MAJORS/CERTIFICATES

- Communication Arts, B.A. (p. 526)
- Communication Arts, B.S. (p. 531)
- Digital Studies, Certificate (p. 536)

## PEOPLE

Please see the People (<https://commarts.wisc.edu/people>) section of the Department of Communication Arts website for additional information.

## FACULTY

### COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Robert Asen, Professor; Robert Glenn Howard, Professor; Jenell Johnson, Associate Professor; Stephen Lucas, Professor; Marie-Louise Mares, Professor; Sara McKinnon, Associate Professor; Zhongdang Pan, Professor; Catalina Toma, Associate Professor; Lyn Van Swol, Professor;

Michael Xenos, Department Chair and Professor; Susan Zaeske, Associate Dean and Professor

## RADIO–TELEVISION–FILM

Maria Belodubrovskaya, Assistant Professor; Kelley Conway, Professor; Jonathan Gray, Professor; Eric Hoyt, Assistant Professor; Lea Jacobs, Associate Vice Chancellor for Arts & Humanities and Professor; Derek Johnson, Associate Professor; Lori Lopez, Assistant Professor; Jeremy Morris, Assistant Professor; J.J. Murphy, Professor; Ben Singer, Associate Professor; Jeff Smith, Professor

## INSTRUCTIONAL STAFF

Aaron Granat, Lecturer; Erik Gunneson, Faculty Associate; Jason Lopez, Lecturer; Sarah Jedd, Associate Faculty Associate; Mary McCoy, Assistant Faculty Associate

## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor

Mary Rossa, Senior Student Services Coordinator

## CAREER ADVISING

Pam Garcia-Rivera, Senior Student Services Coordinator

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All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

#### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### COMMUNICATION ARTS MAJOR REQUIREMENTS

Communication arts offers two options within the major:

- Communication Science and Rhetorical Studies
- Radio–Television–Film

Students declare one of the two options and complete a minimum of 10 courses and at least 30 credits in the major. Please note that COM ARTS courses numbered below 200 as well as COM ARTS 605 COM ARTS 614 and COM ARTS 615 do not count toward a requirement within the major.

Code	Title	Credits
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Select one of the following concentrations:

#### COMMUNICATION SCIENCE AND RHETORICAL STUDIES

This option deals with social, psychological, and practical aspects of communication and human behavior. Students focus on public, mass, online, organizational, group, and interpersonal communication. They develop qualitative and quantitative research skills, conceptual and analytical thinking, and effective oral and written communication.

Code	Title	Credits
<b>Fundamentals</b>		
COM ARTS 260	Communication and Human Behavior	3
<b>Core Courses</b>		
Select one of the following: <sup>1</sup>		3
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	

COM ARTS 370	Great Speakers and Speeches	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
Select one of the following: <sup>1</sup>		3
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
<b>Applied Communication</b>		
Select one of the following:		3
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 263	Speech Composition	
COM ARTS 266	Theory and Practice of Group Discussion	
COM ARTS 272	Introduction to Interpersonal Communication	
COM ARTS 273	Theory and Practice of Interpersonal Communication	
<b>Theory–History–Criticism</b>		
Select three of the following:		9
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS 317	Rhetoric and Health	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	
COM ARTS 378	The Rhetoric of African American Discourse	
COM ARTS 402	The Psychology of Communication	
COM ARTS 470	Contemporary Political Discourse	
COM ARTS 472	Rhetoric and Technology	
COM ARTS 476	Nature of Criticism-The Public Arts of Communication	
COM ARTS 478	Rhetoric and Power on the Internet	
COM ARTS 509	Digital Media and Political Communication	
COM ARTS/ FOLKLORE 522	Digitally Documenting Everyday Communication	
COM ARTS 525	Media, Deliberation, and Public Issues	

COM ARTS 560	Communication Theory	
COM ARTS 562	Theories of Deliberation and Controversy	
COM ARTS 565	Communication and Interethnic Behavior	
COM ARTS 570	Classical Rhetorical Theory	
COM ARTS 571	Contemporary Rhetorical Theory	
COM ARTS 573	Rhetoric of Globalization and Transnationalism	
COM ARTS 575	Communication in Complex Organizations	
COM ARTS 576	Principles of Rhetorical Criticism	
COM ARTS 577	Dynamics of Online Relationships	
COM ARTS 610	Special Topics in Rhetoric and Public Address	
COM ARTS 612	Special Topics in Communication Science	
COM ARTS/HDFS/ JOURN/LSC 616	Mass Media and Youth	
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age	
COM ARTS 667	History of American Public Address	
COM ARTS 671	Communication and Social Conflict	
COM ARTS 674	Rhetorical Analysis	
COM ARTS 675	Rhetoric of Women's Social and Political Discourse	

**Radio–TV–Film**

Select any course from the Radio–TV–Film Option 3

**Electives**

Select any two COM ARTS courses numbered 200 and above<sup>2</sup> 6

Total Credits 30

<sup>1</sup> Can be applied to only one requirement within the major.

<sup>2</sup> Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

**RADIO–TELEVISION–FILM**

This option focuses on the history, theory, criticism, cultural uses, and production practices of television, film, radio, and digital media. While there is no production major, students are required to take a media production course in order to gain a concrete understanding of the possibilities of these media. Emphasis is on critical analysis, creative expression, and an understanding of how media functions in our society.

Code	Title	Credits
<b>Fundamentals</b>		
COM ARTS 250	Survey of Contemporary Media	3
<b>Radio–TV–Film Core</b>		
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3
<b>Production</b>		
COM ARTS 355	Introduction to Media Production	4
Advanced production courses (count as Electives for the Major):		
COM ARTS 465	Editing and Post-production for Video and Film	



COM ARTS 466	Writing for Television and Film	
COM ARTS 467	Cinematography and Sound Recording	
COM ARTS 468	Producing for Internet TV and Video	
COM ARTS 609	Special Topics in Production	
COM ARTS 659	Advanced Motion Picture Production Workshop	
<b>Theory–History–Criticism</b>		
Select three of the following:		9
COM ARTS 313	Topics in Film and Media Studies	
COM ARTS 346	Critical Internet Studies	
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	
COM ARTS 352	Film History to 1960	
COM ARTS 353	Film History Since 1960	
COM ARTS 354	Film Styles and Genres	
COM ARTS 357	History of the Animated Film	
COM ARTS 358	History of Documentary Film	
COM ARTS 359	Sports Media	
COM ARTS 375	Ethics of Entertainment Media	
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	
COM ARTS 400	The Films of Alfred Hitchcock	
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	
COM ARTS/ CHICLA 419	Latino/as and Media	
COM ARTS/ ASIAN AM 420	Asian Americans and Media	
COM ARTS 448	Media and National Identity	
COM ARTS 449	Sound Cultures: Podcasting and Music	
COM ARTS 450	Cultural History of Broadcasting	
COM ARTS 451	Television Criticism	
COM ARTS 454	Critical Film Analysis	
COM ARTS 455	French Film	
COM ARTS 456	Russian and Soviet Film	
COM ARTS 458	Global Media Cultures	
COM ARTS 459	New Media and Society	
COM ARTS/ ITALIAN 460	Italian Film	
COM ARTS 462	American Independent Cinema	
COM ARTS 463	Avant-Garde Film	
COM ARTS 540	Television Genres	
COM ARTS 547	Digital Game Cultures	
COM ARTS 552	Contemporary Hollywood Cinema	
COM ARTS 556	The American Film Industry in the Era of the Studio System	
COM ARTS 557	Contemporary Media Industries	
COM ARTS/ JOURN 558	Public, Community, and Alternative Media	
COM ARTS 608	Special Topics in Media and Cultural Studies	
COM ARTS 613	Special Topics in Film	

COM ARTS/ GERMAN 655	German Film	
COM ARTS 662	Media and Cultural Theory I	
COM ARTS 663	Media and Cultural Theory II	
COM ARTS 664	Classical Film Theory	
COM ARTS 665	Contemporary Film Theory	
<b>Communication Science and Rhetorical Studies</b>		
Select any course from the Communication Science and Rhetorical Studies Option		3
<b>Electives</b>		
Select any two COM ARTS courses numbered 200 and above <sup>1</sup>		6
<b>Total Credits</b>		<b>31</b>

<sup>1</sup> Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all COM ARTS and major courses  
2.000 GPA on 15 upper-level major credits, taken in residence:  
intermediate- or advanced-level COM ARTS or major courses  
15 credits in COM ARTS, taken on campus

## DISTINCTION IN THE MAJOR IN COMMUNICATION ARTS

Students not enrolled in the honors program who have earned a 3.750 or higher GPA within their COM ARTS and major courses are eligible for distinction in the major.

## HONORS IN THE MAJOR IN COMMUNICATION ARTS

Students may apply to pursue Honors in the Communication Arts Major in consultation with the Communication Arts undergraduate advisor. To be accepted students must have:

- Completed the fundamentals course and the two core courses for their declared Option and
- Earned a 3.500 GPA in all COM ARTS courses

## HONORS IN THE COMMUNICATION ARTS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Communication Arts students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COM ARTS courses
- Complete the requirements for the declared major Option, to include:
  - All theory, history, criticism courses taken to meet the regular major requirements within the declared Option must be 400-level or higher, for Honors
  - One additional theory, history, criticism course at the 400 level or higher, for Honors
  - Three Theory, History and Criticism courses must be completed on campus.<sup>1</sup>
  - A two-semester Senior Honors Thesis in COM ARTS 681 Senior Honors Thesis and COM ARTS 682 Senior Honors Thesis, for a total of 6 credits<sup>2</sup>

- <sup>1</sup> Online courses taken through the University of Wisconsin–Madison Department of Communication Arts are considered on-campus for this purpose
- <sup>2</sup> Submission and approval of a Senior Honors Thesis Proposal is required prior to the term in which students enroll for COM ARTS 681 Senior Honors Thesis. See the Communication Arts Undergraduate Advisor for current process. Approval of the completed thesis by the thesis advisor and a second Communication Arts faculty member is required.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will demonstrate an understanding of core content in either of the two tracks: Communication Science and Rhetorical Studies or Radio-TV-Film.
2. Students will be able to conduct theoretical, historical, and critical analyses of communication.
3. Students will demonstrate an ability to communicate effectively in writing, orally, or via the creation of media content (e.g., digital, film).

## ADVISING AND CAREERS

### COMMUNICATION ARTS ACADEMIC ADVISING

Communication arts academic advisors (<https://commarts.wisc.edu/undergraduate/advising>) assist students throughout their undergraduate studies. They offer individual appointments, drop-in advising, and group advising.

#### CONTACT INFORMATION:

Steffie Halverson, 6070 Vilas Hall, 608-262-2285, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu) (<http://guide.wisc.edu/undergraduate/>

[letters-science/communication-arts/communication-arts-ba/advising@commarts.wisc.edu](https://letters-science/communication-arts/communication-arts-ba/advising@commarts.wisc.edu)  
Mary Rossa, 6068 Vilas Hall, 608-262-0992, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

## CAREER ADVISING

The communication and media career advisor (<https://journalism.wisc.edu/career-services/advising>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters.

#### CONTACT INFORMATION:

Pam Garcia-Rivera, 5114 Vilas Hall, 608-890-1046, [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu)

## CAREER EXPLORATION AND PREPARATION GAIN EXPERIENCE

The Department of Communication Arts encourages students to apply the knowledge and skills they attain through coursework to professional settings. Internships and part-time jobs at television networks, nonprofit organizations, talent agencies, magazines, radio stations, advertising agencies, production companies, government agencies, and other communication-related businesses help students gain work-related experience and explore career options. Advising emails, tweets ([https://twitter.com/uwcommarts\\_adv](https://twitter.com/uwcommarts_adv)), and postings provide communication arts majors with information on opportunities across the country.

Declared majors may earn one credit for their internship experience through COM ARTS 614 Field Experience in Communication and COM ARTS 615 Second Field Experience in Communication .

#### ATTEND EVENTS

Throughout the academic year, students have the opportunity to participate in several communication-focused, career-related events, such as guest speakers, career panels, and the advertising and communications career fair.

### COMMUNICATION ARTS ALUMNI CAREERS AT A GLANCE

After completing a liberal arts education with a communication arts major, communication arts alumni pursue a variety of careers. In a recent survey, communication arts alumni were asked to provide and categorize their occupation. The results are available on the Department of Communication Arts website:

- Communication Science & Rhetorical Studies Alumni Careers (<https://commarts.wisc.edu/sites/default/files/files/2013/08/13/CA%20Alumni%20Careers%20Com%20Sci%20Rhetoric.pdf>)
- Radio–Television–Film Alumni Careers (<https://commarts.wisc.edu/sites/default/files/files/2013/08/13/CA%20Alumni%20Careers%20RTF.pdf>)

#### ADDITIONAL CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

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## FACULTY

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## WISCONSIN EXPERIENCE

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### STUDENT ORGANIZATIONS

UW-Madison offers many opportunities to get involved. Communication arts majors join student organizations across their areas of interest.

#### Department-Affiliated Organizations:

- Communication Arts Student Association (CASA)
- Hollywood Badgers
- Production at Wisconsin (PAW)

See the Department of Communication Arts website for a sampling of other UW student organizations (<https://commarts.wisc.edu/undergraduate/opportunities>) that may be of interest to communication-focused students.

## STUDYING ABROAD

Communications arts majors are encouraged to look at study abroad programs and opportunities across the globe. Our students have studied in cities such as London, Rome, Tel Aviv, Prague, Galway, Sydney, Madrid, Bologna, Cape Town, Paris, Copenhagen, and Buenos Aires. When

planning for their semester abroad, students should think beyond courses required for their major. Students are encouraged to take courses from a variety of subjects to satisfy elective credits for their degree.

## RESEARCH OPPORTUNITIES

Communication science research team members gain hands-on research experience. Undergraduate research assistants may learn to code and enter data, interview participants, gather and prepare research materials, run experiments, and perform other activities required to complete a research study. Reading and writing assignments related to the research activities are assigned throughout the semester. Opportunities to participate in a research team vary from semester to semester.

## RESOURCES AND SCHOLARSHIPS

## SCHOLARSHIPS

Students apply for scholarships online through My Scholarships (<https://scholarships.wisc.edu/Scholarships>). The Department of Communication Arts offers the following scholarships:

- Christopher Neal Heinlein Memorial Scholarships
- Charline M. Wackman Awards for Summer Session
- Charline M. Wackman Awards (Fall Term)
- Keith Harris Wyche Memorial Scholarships

See the scholarship section (<https://commarts.wisc.edu/undergraduate/scholarships>) of the department website for additional details.

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major in communication arts. Students **may not** declare communication arts as a second major if they have earned more than 100 credits.

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### COMMUNICATION ARTS MAJOR REQUIREMENTS

Communication arts offers two options within the major:

- Communication Science and Rhetorical Studies
- Radio–Television–Film

Students declare one of the two options and complete a minimum of 10 courses and at least 30 credits in the major. Please note that COM ARTS courses numbered below 200 as well as COM ARTS 605 COM ARTS 614 and COM ARTS 615 do not count toward a requirement within the major.

Code	Title	Credits
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Select one of the following concentrations:

#### COMMUNICATION SCIENCE AND RHETORICAL STUDIES

This option deals with social, psychological, and practical aspects of communication and human behavior. Students focus on public, mass, online, organizational, group, and interpersonal communication. They develop qualitative and quantitative research skills, conceptual and analytical thinking, and effective oral and written communication.

Code	Title	Credits
<b>Fundamentals</b>		
COM ARTS 260	Communication and Human Behavior	3

#### Core Courses

Select one of the following: <sup>1</sup>		3
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	

COM ARTS 370	Great Speakers and Speeches	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
Select one of the following: <sup>1</sup>		3
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
<b>Applied Communication</b>		
Select one of the following:		3
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 263	Speech Composition	
COM ARTS 266	Theory and Practice of Group Discussion	
COM ARTS 272	Introduction to Interpersonal Communication	
COM ARTS 273	Theory and Practice of Interpersonal Communication	
<b>Theory–History–Criticism</b>		
Select three of the following:		9
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS 317	Rhetoric and Health	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	
COM ARTS 378	The Rhetoric of African American Discourse	
COM ARTS 402	The Psychology of Communication	
COM ARTS 470	Contemporary Political Discourse	
COM ARTS 472	Rhetoric and Technology	
COM ARTS 476	Nature of Criticism-The Public Arts of Communication	
COM ARTS 478	Rhetoric and Power on the Internet	
COM ARTS 509	Digital Media and Political Communication	
COM ARTS/ FOLKLORE 522	Digitally Documenting Everyday Communication	
COM ARTS 525	Media, Deliberation, and Public Issues	

COM ARTS 560	Communication Theory	
COM ARTS 562	Theories of Deliberation and Controversy	
COM ARTS 565	Communication and Interethnic Behavior	
COM ARTS 570	Classical Rhetorical Theory	
COM ARTS 571	Contemporary Rhetorical Theory	
COM ARTS 573	Rhetoric of Globalization and Transnationalism	
COM ARTS 575	Communication in Complex Organizations	
COM ARTS 576	Principles of Rhetorical Criticism	
COM ARTS 577	Dynamics of Online Relationships	
COM ARTS 610	Special Topics in Rhetoric and Public Address	
COM ARTS 612	Special Topics in Communication Science	
COM ARTS/HDFS/ JOURN/LSC 616	Mass Media and Youth	
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age	
COM ARTS 667	History of American Public Address	
COM ARTS 671	Communication and Social Conflict	
COM ARTS 674	Rhetorical Analysis	
COM ARTS 675	Rhetoric of Women's Social and Political Discourse	

**Radio–TV–Film**

Select any course from the Radio–TV–Film Option 3

**Electives**

Select any two COM ARTS courses numbered 200 and above<sup>2</sup> 6

Total Credits 30

<sup>1</sup> Can be applied to only one requirement within the major.

<sup>2</sup> Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

**RADIO–TELEVISION–FILM**

This option focuses on the history, theory, criticism, cultural uses, and production practices of television, film, radio, and digital media. While there is no production major, students are required to take a media production course in order to gain a concrete understanding of the possibilities of these media. Emphasis is on critical analysis, creative expression, and an understanding of how media functions in our society.

Code	Title	Credits
<b>Fundamentals</b>		
COM ARTS 250	Survey of Contemporary Media	3
<b>Radio–TV–Film Core</b>		
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3
<b>Production</b>		
COM ARTS 355	Introduction to Media Production	4
Advanced production courses (count as Electives for the Major):		
COM ARTS 465	Editing and Post-production for Video and Film	

COM ARTS 466	Writing for Television and Film
COM ARTS 467	Cinematography and Sound Recording
COM ARTS 468	Producing for Internet TV and Video
COM ARTS 609	Special Topics in Production
COM ARTS 659	Advanced Motion Picture Production Workshop
<b>Theory–History–Criticism</b>	
Select three of the following: 9	
COM ARTS 313	Topics in Film and Media Studies
COM ARTS 346	Critical Internet Studies
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media
COM ARTS 352	Film History to 1960
COM ARTS 353	Film History Since 1960
COM ARTS 354	Film Styles and Genres
COM ARTS 357	History of the Animated Film
COM ARTS 358	History of Documentary Film
COM ARTS 359	Sports Media
COM ARTS 375	Ethics of Entertainment Media
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)
COM ARTS 400	The Films of Alfred Hitchcock
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media
COM ARTS/ CHICLA 419	Latino/as and Media
COM ARTS/ ASIAN AM 420	Asian Americans and Media
COM ARTS 448	Media and National Identity
COM ARTS 449	Sound Cultures: Podcasting and Music
COM ARTS 450	Cultural History of Broadcasting
COM ARTS 451	Television Criticism
COM ARTS 454	Critical Film Analysis
COM ARTS 455	French Film
COM ARTS 456	Russian and Soviet Film
COM ARTS 458	Global Media Cultures
COM ARTS 459	New Media and Society
COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS/ JOURN 558	Public, Community, and Alternative Media
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 613	Special Topics in Film

COM ARTS/ GERMAN 655	German Film
COM ARTS 662	Media and Cultural Theory I
COM ARTS 663	Media and Cultural Theory II
COM ARTS 664	Classical Film Theory
COM ARTS 665	Contemporary Film Theory
<b>Communication Science and Rhetorical Studies</b>	
Select any course from the Communication Science and Rhetorical Studies Option	3
<b>Electives</b>	
Select any two COM ARTS courses numbered 200 and above <sup>1</sup>	6
Total Credits	31

<sup>1</sup> Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all COM ARTS and major courses  
2.000 GPA on 15 upper-level major credits, taken in residence:  
intermediate- or advanced-level COM ARTS or major courses  
15 credits in COM ARTS, taken on campus

## DISTINCTION IN THE MAJOR IN COMMUNICATION ARTS

Students not enrolled in the honors program who have earned a 3.750 or higher GPA within their COM ARTS and major courses are eligible for distinction in the major.

## HONORS IN THE MAJOR IN COMMUNICATION ARTS

Students may apply to pursue Honors in the Communication Arts Major in consultation with the Communication Arts undergraduate advisor. To be accepted students must have:

- Completed the fundamentals course and the two core courses for their declared Option and
- Earned a 3.500 GPA in all COM ARTS courses

## HONORS IN THE COMMUNICATION ARTS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Communication Arts students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COM ARTS courses
- Complete the requirements for the declared major Option, to include:
  - All theory, history, criticism courses taken to meet the regular major requirements within the declared Option must be 400-level or higher, for Honors
  - One additional theory, history, criticism course at the 400 level or higher, for Honors
  - Three Theory, History and Criticism courses must be completed on campus.<sup>1</sup>
  - A two-semester Senior Honors Thesis in COM ARTS 681 Senior Honors Thesis and COM ARTS 682 Senior Honors Thesis, for a total of 6 credits<sup>2</sup>

- <sup>1</sup> Online courses taken through the University of Wisconsin–Madison Department of Communication Arts are considered on-campus for this purpose
- <sup>2</sup> Submission and approval of a Senior Honors Thesis Proposal is required prior to the term in which students enroll for COM ARTS 681 Senior Honors Thesis. See the Communication Arts Undergraduate Advisor for current process. Approval of the completed thesis by the thesis advisor and a second Communication Arts faculty member is required.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will demonstrate an understanding of core content in either of the two tracks: Communication Science and Rhetorical Studies or Radio-TV-Film.
2. Students will be able to conduct theoretical, historical, and critical analyses of communication.
3. Students will demonstrate an ability to communicate effectively in writing, orally, or via the creation of media content (e.g., digital, film).

## ADVISING AND CAREERS

### COMMUNICATION ARTS ACADEMIC ADVISING

Communication arts academic advisors (<https://commarts.wisc.edu/undergraduate/advising>) assist students throughout their undergraduate studies. They offer individual appointments, drop-in advising, and group advising.

#### CONTACT INFORMATION:

Steffie Halverson, 6070 Vilas Hall, 608-262-2285, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu) (<http://guide.wisc.edu/undergraduate/>

[letters-science/communication-arts/communication-arts-bs/advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)  
Mary Rossa, 6068 Vilas Hall, 608-262-0992, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

## CAREER ADVISING

The communication and media career advisor (<https://journalism.wisc.edu/career-services/advising>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters.

#### CONTACT INFORMATION:

Pam Garcia-Rivera, 5114 Vilas Hall, 608-890-1046, [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu)

## CAREER EXPLORATION AND PREPARATION GAIN EXPERIENCE

The Department of Communication Arts encourages students to apply the knowledge and skills they attain through coursework to professional settings. Internships and part-time jobs at television networks, nonprofit organizations, talent agencies, magazines, radio stations, advertising agencies, production companies, government agencies, and other communication-related businesses help students gain work-related experience and explore career options. Advising emails, tweets ([https://twitter.com/uwcommarts\\_adv](https://twitter.com/uwcommarts_adv)), and postings provide communication arts majors with information on opportunities across the country.

Declared majors may earn one credit for their internship experience through COM ARTS 614 Field Experience in Communication and COM ARTS 615 Second Field Experience in Communication .

#### ATTEND EVENTS

Throughout the academic year, students have the opportunity to participate in several communication-focused, career-related events, such as guest speakers, career panels, and the advertising and communications career fair.

### COMMUNICATION ARTS ALUMNI CAREERS AT A GLANCE

After completing a liberal arts education with a communication arts major, communication arts alumni pursue a variety of careers. In a recent survey, communication arts alumni were asked to provide and categorize their occupation. The results are available on the Department of Communication Arts website:

- Communication Science & Rhetorical Studies Alumni Careers (<https://commarts.wisc.edu/sites/default/files/files/2013/08/13/CA%20Alumni%20Careers%20Com%20Sci%20Rhetoric.pdf>)
- Radio–Television–Film Alumni Careers (<https://commarts.wisc.edu/sites/default/files/files/2013/08/13/CA%20Alumni%20Careers%20RTF.pdf>)

#### ADDITIONAL CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Please see the People (<https://commarts.wisc.edu/people>) section of the Department of Communication Arts website for additional information.

## FACULTY

### COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Robert Asen, Professor; Robert Glenn Howard, Professor; Jenell Johnson, Associate Professor; Stephen Lucas, Professor; Marie-Louise Mares, Professor; Sara McKinnon, Associate Professor; Zhongdang Pan, Professor; Catalina Toma, Associate Professor; Lyn Van Swol, Professor; Michael Xenos, Department Chair and Professor; Susan Zaeske, Associate Dean and Professor

### RADIO–TELEVISION–FILM

Maria Belodubrovskaya, Assistant Professor; Kelley Conway, Professor; Jonathan Gray, Professor; Eric Hoyt, Assistant Professor; Lea Jacobs, Associate Vice Chancellor for Arts & Humanities and Professor; Derek Johnson, Associate Professor; Lori Lopez, Assistant Professor; Jeremy Morris, Assistant Professor; J.J. Murphy, Professor; Ben Singer, Associate Professor; Jeff Smith, Professor

## INSTRUCTIONAL STAFF

Aaron Granat, Lecturer; Erik Gunneson, Faculty Associate; Jason Lopez, Lecturer; Sarah Jedd, Associate Faculty Associate; Mary McCoy, Assistant Faculty Associate

## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor  
Mary Rossa, Senior Student Services Coordinator

## CAREER ADVISING

Pam Garcia-Rivera, Senior Student Services Coordinator

## WISCONSIN EXPERIENCE

## WISCONSIN EXPERIENCE

### STUDENT ORGANIZATIONS

UW–Madison offers many opportunities to get involved. Communication arts majors join student organizations across their areas of interest.

#### Department-Affiliated Organizations:

- Communication Arts Student Association (CASA)
- Hollywood Badgers
- Production at Wisconsin (PAW)

See the Department of Communication Arts website for a sampling of other UW student organizations (<https://commarts.wisc.edu/undergraduate/opportunities>) that may be of interest to communication-focused students.

## STUDYING ABROAD

Communications arts majors are encouraged to look at study abroad programs and opportunities across the globe. Our students have studied in cities such as London, Rome, Tel Aviv, Prague, Galway, Sydney, Madrid, Bologna, Cape Town, Paris, Copenhagen, and Buenos Aires. When

planning for their semester abroad, students should think beyond courses required for their major. Students are encouraged to take courses from a variety of subjects to satisfy elective credits for their degree.

## RESEARCH OPPORTUNITIES

Communication science research team members gain hands-on research experience. Undergraduate research assistants may learn to code and enter data, interview participants, gather and prepare research materials, run experiments, and perform other activities required to complete a research study. Reading and writing assignments related to the research activities are assigned throughout the semester. Opportunities to participate in a research team vary from semester to semester.

## RESOURCES AND SCHOLARSHIPS

## SCHOLARSHIPS

Students apply for scholarships online through My Scholarships (<https://scholarships.wisc.edu/Scholarships>). The Department of Communication Arts offers the following scholarships:

- **Christopher Neal Heinlein Memorial Scholarships**
- **Charline M. Wackman Awards for Summer Session**
- **Charline M. Wackman Awards (Fall Term)**
- **Keith Harris Wyche Memorial Scholarships**

See the scholarship section (<https://commarts.wisc.edu/undergraduate/scholarships>) of the department website for additional details.

## DIGITAL STUDIES, CERTIFICATE

Digital studies at the University of Wisconsin–Madison explores the relationship between communication and digital forms of media by asking four questions:

- How do digital media affect the ways we communicate?
- How do we use digital tools to best communicate with each other?
- What roles do the visual, sound and interactive elements of digital media play and how can we use them?
- How do digital technologies affect the way we access and understand information?

It forges new connections across disciplinary boundaries by addressing distinct yet overlapping areas of intellectual activity:

- *Digital information structures*—the consideration and assessment of how we use and create digital archives, databases, and other digital information architectures
- *Digital media*—the consideration of how we consume and assess communication that is mediated by digital technologies such as Internet, mobile, and smart devices including digital video and audio content as well as games and simulations produced both in everyday discourse and by media professionals
- *Digital forms*—the analysis and assessment of both mechanical and aesthetic elements of design in digital content including visual, audio, interactive and other components
- *Digital practices*—the acquisition of skills that allow us to create expressive and strategic communication content using digital tools such as digital video and audio equipment as well as software for video and audio editing, Web-design, database and information



architecture design, app design, computer simulation, and digital gaming

The digital studies certificate brings together departments from across campus and allows students to choose from over fifty courses to create their own individualized digital curriculum, where students have the opportunity to both produce digital content and critically assess the digital content they encounter.

## HOW TO GET IN

### DECLARING THE DIGITAL STUDIES CERTIFICATE

The certificate is available to students working for a baccalaureate degree in any UW–Madison school or college and to University Special students admitted to the program while undergraduates, with fewer than 9 credits to complete post-baccalaureate; to be completed within one year of graduation.

Students must meet with the Digital Studies advisor to declare the certificate. Students can either schedule an appointment or stop in during walk-in hours. After the meeting, students must complete the Declaration Survey emailed to them by the digital studies advisor.

See the Digital Studies Advising (<http://digitalstudies.wisc.edu/advising>) page for information about meeting with the advisor.

## REQUIREMENTS

To earn a digital studies certificate, students must complete all requirements for a bachelor's degree, requirements of the declared major(s), and graduate from UW–Madison. In addition, students must take all required certificate courses for a letter grade versus pass/fail (except for the capstone course).

The certificate requires a minimum of six courses, totaling at least 16 credits. Students must complete one core course, one course from each of the four topics areas, and the capstone course.

Code	Title	Credits
<b>Certificate Requirements</b>		
	Digital Studies Core Course	3-4
	Digital Information Structures Topics Course (I)	3-4
	Digital Media Topics Course (M)	3-4
	Digital Forms Topics Course (F)	3-4
	Digital Practices Topics Course (P)	3-4
COM ARTS 605	Digital Studies Capstone <sup>1</sup>	1
Total Credits		16-21

### Residence and Quality of Work

Students must maintain a cumulative GPA of 2.000 for courses counting toward the Certificate.

9 credits counting toward the Certificate must be In Residence.

<sup>1</sup> The capstone course cannot be completed until students have completed or are enrolled in their final course toward the Certificate.

## COURSE LIST

Below is the list of all courses that count toward the certificate. To see which courses are being offered during a specific term, please visit the Digital Studies website (<http://digitalstudies.wisc.edu/courses>).

### CORE COURSES

Code	Title	Credits
COM ARTS 200	Introduction to Digital Communication	3
ENGL 178	Digital Media, Literature, and Culture	3
JOURN 175	Media Fluency for the Digital Age	3
L I S 201	The Information Society	4

### DIGITAL INFORMATION STRUCTURES (I) COURSES

Code	Title	Credits
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 472	Rhetoric and Technology	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS/ FOLKLORE 522	Digitally Documenting Everyday Communication	3
COM ARTS/JOURN/ LSC 617	Health Communication in the Information Age	3
CURRIC 209	Digital Media and Literacy	3
GEOG 572	Graphic Design in Cartography	3-4
GEOG 575	Interactive Cartography & Geovisualization	4
LEGAL ST/L I S 663	Introduction to Cyberlaw	3
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 301	Information Literacies in Online Spaces	3
L I S 340	Topics in Information Studies - Social Aspects	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 350	History and Future of Books	3
L I S 351	Introduction to Digital Information	3
L I S 500	Code and Power	3
L I S/NURSING/ OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
L I S 661	Information Ethics and Policy	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3

### DIGITAL MEDIA (M) COURSES

Code	Title	Credits
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 459	New Media and Society	3

COM ARTS 472	Rhetoric and Technology	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS 509	Digital Media and Political Communication	3
COM ARTS 547	Digital Game Cultures	3
COM ARTS 577	Dynamics of Online Relationships	3
ENGL 271	Writing with New Media	3
ENGL 571	Remix, Mashup, and Digital Design	3
JOURN 463	Digital Media Strategies	4
JOURN 464	Public Relations Strategies	4
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	3
L I S 340	Topics in Information Studies - Social Aspects	3
L I S 350	History and Future of Books	3
L I S/NURSING/OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
L I S 661	Information Ethics and Policy	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3
LSC 350	Visualizing Science and Technology	3
LSC 432	Social Media for the Life Sciences	3
LSC 440	Contemporary Communication Technologies and Their Social Effects	3

## DIGITAL FORMS (F) COURSES

Code	Title	Credits
ART 107	Introduction to Digital Forms	3
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 529	3D Digital Studio II	4
ART 629	3D Digital Studio III	4
ART 656	Design Portfolio and Professional Practice	4
ART 660	Art and Technology	4
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 355	Introduction to Media Production	4
COM ARTS 465	Editing and Post-production for Video and Film	4
COM ARTS 467	Cinematography and Sound Recording	4
COM ARTS 468	Producing for Internet TV and Video	3
COM ARTS 659	Advanced Motion Picture Production Workshop	4
GEOG 370	Introduction to Cartography	4
GEOG 572	Graphic Design in Cartography	3-4
GEOG 575	Interactive Cartography & Geovisualization	4
JOURN 411	Multimedia Design	4
JOURN 417	Magazine Publishing	4
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	3
LSC 332	Print and Electronic Media Design	3

LSC 350	Visualizing Science and Technology	3
LSC 450	Documentary Photography for the Sciences	3
LSC 532	Web Design for the Sciences	3

## DIGITAL PRACTICES (P) COURSES

Code	Title	Credits
ART 107	Introduction to Digital Forms	3
ART 309	Digital Art and Code	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 529	3D Digital Studio II	4
ART 629	3D Digital Studio III	4
ART 656	Design Portfolio and Professional Practice	4
ART 660	Art and Technology	4
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 355	Introduction to Media Production	4
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 465	Editing and Post-production for Video and Film	4
COM ARTS 467	Cinematography and Sound Recording	4
COM ARTS 468	Producing for Internet TV and Video	3
COM ARTS/FOLKLORE 522	Digitally Documenting Everyday Communication	3
COM ARTS 659	Advanced Motion Picture Production Workshop	4
COMP SCI 200	Programming I	3
COMP SCI 202	Introduction to Computation	3
COMP SCI 301	Introduction to Data Programming	3
CURRIC 209	Digital Media and Literacy	3
ENGL 271	Writing with New Media	3
ENGL 571	Remix, Mashup, and Digital Design	3
GEOG 370	Introduction to Cartography	4
JOURN 411	Multimedia Design	4
JOURN 417	Magazine Publishing	4
JOURN 419	Electronic News for Web and Broadcast	4
JOURN 445	Creative Campaign Messages	4
JOURN 449	Account Planning and Strategy	4
JOURN 463	Digital Media Strategies	4
JOURN 464	Public Relations Strategies	4
JOURN 670	Community Service Learning: Technology for Social Change	3
L I S 301	Information Literacies in Online Spaces	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 351	Introduction to Digital Information	3
LSC 314	Introduction to Digital Video Production	3

LSC 332	Print and Electronic Media Design	3
LSC 360	Information Radio	3
LSC 432	Social Media for the Life Sciences	3
LSC 450	Documentary Photography for the Sciences	3
LSC 532	Web Design for the Sciences	3
LSC 614	Advanced Video Production	3

## ADVISING AND CAREERS

### DIGITAL STUDIES ACADEMIC ADVISING

Students who would like to learn more about the certificate, declare, or go over requirements should meet with the digital studies advisor. Advising is offered via appointments (scheduled through the Scheduling Assistant) or walk-in hours, listed here (<http://digitalstudies.wisc.edu/advising>).

#### CONTACT INFORMATION

Amy Schultz, 6072 Vilas Hall, 608-262-2547  
Email: [digitalstudies@commarts.wisc.edu](mailto:digitalstudies@commarts.wisc.edu)

### CAREER ADVISING

The communication and media career advisor (<https://journalism.wisc.edu/career-services/advising>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters.

#### CONTACT INFORMATION

Pam Garcia-Rivera, 5114 Vilas Hall, 608-890-1046, [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu)

## PEOPLE

### DIGITAL STUDIES EXECUTIVE COMMITTEE

Robert Howard, Professor, Director, Department of Communication Arts

Kristin Eschenfelder, Professor, Information School

Stephen Hilyard, Professor, Art Department

Thomas Purnell, Professor, Department of English

Hemant Shah, Professor, School of Journalism and Mass Communication

Michael Xenos, Professor, Department of Communication Arts

### ADVISING

Amy Schultz, Student Services Coordinator

### FACULTY AND INSTRUCTIONAL STAFF

The faculty and instructional staff for the digital studies certificate come from a wide variety of disciplines and regularly teach the courses offered through the certificate program.

#### ART DEPARTMENT

Michael Connors, Professor; Stephen Hilyard, Professor; Dennis Miller, Professor; Meg Mitchell, Assistant Professor

### DEPARTMENT OF COMMUNICATION ARTS

Erik Gunneson, Faculty Associate; Robert Howard, Professor; Eric Hoyt, Assistant Professor; Derek Johnson, Associate Professor; Jenell Johnson, Associate Professor; Jeremy Morris, Assistant Professor; J.J. Murphy, Professor; Catalina Toma, Associate Professor; Michael Xenos, Professor

### DEPARTMENT OF COMPUTER SCIENCES

Gary Dahl, Associate Faculty Associate; Laura Hobbes Legault, Assistant Faculty Associate; Jim Williams, Associate Faculty Associate

### DEPARTMENT OF CURRICULUM AND INSTRUCTION

Erica Halverson, Associate Professor

### DEPARTMENT OF ENGLISH

Mark Vareschi, Assistant Professor

### DEPARTMENT OF GEOGRAPHY

Robert Roth, Assistant Professor

### SCHOOL OF JOURNALISM AND MASS COMMUNICATION

Kathleen Culver, Assistant Professor; Stacy Forster, Associate Faculty Associate; Patricia Hastings, Faculty Associate; Douglas McLeod, Professor; Debra Pierce, Faculty Associate; Christopher Wells, Associate Professor

### INFORMATION SCHOOL

Anuj Desai, Professor; Alan Rubel, Associate Professor; Dorothea Salo, Faculty Associate; Jonathan Senchyne, Assistant Professor; Deb Shapiro, Faculty Associate; Catherine Smith, Associate Professor; Rebekah Willett, Assistant Professor

### DEPARTMENT OF LIFE SCIENCES COMMUNICATION

Sarah Botham, Faculty Associate; Patty Loew, Professor; Larry Meiller, Professor Emeritus; Shiela Reaves, Professor; Donald Stanley, Faculty Associate

## WISCONSIN EXPERIENCE

As an interdisciplinary certificate, students are encouraged to explore courses across disciplines and areas of interest. Once declared, students have access to unique and exciting courses where they not only study digital media, but learn to be savvy users and creators of digital media that they can use in their professional lives. Examples of work that students create include websites, videos, illustrations, posters, podcasts, and more.

Digital studies certificate students also have access to networking and alumni events featuring careers in digital media, internship and job opportunities emailed directly to them, technology resources through the Instructional Media Center (<https://commarts.wisc.edu/imc>), and design consulting services through DesignLab (<https://designlab.wisc.edu>). Through advising, students receive tailored recommendations based

on their interests and are encouraged to seek out ways to apply the knowledge they are learning in the classroom through involvement in student organizations, volunteering, and internships.

## COMMUNICATION SCIENCES AND DISORDERS

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech–language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to practice as licensed and/or certified clinicians in educational and medical–allied-health settings, assisting clients with communicative impairments arising from disease, trauma, predisposition, maladaptive learning, or unknown causes. Professional clinical practice follows completion of a master’s degree in speech–language pathology (<http://guide.wisc.edu/graduate/communication-sciences-disorders/communication-sciences-disorders-ms>), or a doctor of audiology degree (<http://guide.wisc.edu/graduate/communication-sciences-disorders/audiology-aud>), and involves evaluation and treatment based upon a firm theoretical understanding of normal processes of hearing, and of speech and language formulation, production, and perception. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., law, medicine, nursing, special education).

Students are urged to consult with an undergraduate academic advisor in the department as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others. Many of the courses are offered only once a year. **To declare the major**, students must earn a grade point average of 3.000 or better for the three courses CS&D 201 Speech Science, CS&D 202 Normal Aspects of Hearing, and CS&D 240 Language Development in Children and Adolescents, the first time these courses are attempted. Prospective majors typically begin taking this three-course “gateway” sequence as sophomores. Major declaration forms may be obtained from an advisor after the gateway criterion has been satisfied, and should be returned to the advisor for processing.

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education (p. 1226). Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements for the major. Moreover, each program (L&S and Education) has its own general liberal studies requirements involving, for example, sciences, math, foreign language, social studies, and humanities. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech–language pathology and in audiology by the Council on Academic Accreditation of the American Speech–Language–Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## DEGREES/MAJORS/CERTIFICATES

- Communication Sciences and Disorders, B.A. (p. 540)
- Communication Sciences and Disorders, B.S. (p. 543)

## PEOPLE

Professors Connor, Ellis Weismer, Fowler, Hustad, Kaushanskaya, Litovsky, Thibeault

Associate Professor Ciucci

Assistant Professors Boothalingam, Parrell, Niziolek, Sterling

Visiting Assistant Professors Easwar, Finney, Rountrey

Clinical Professor Quinn

Clinical Associate Professors Buhr-Lawler, Caul, Cohen, Douglas, Eith, Hartman, Kroll, Krug, Lee, Seidel

Lecturer Johnson

## COMMUNICATION SCIENCES AND DISORDERS, B.A.

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech–language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to practice as licensed and/or certified clinicians in educational and medical/allied-health settings, assisting clients with communicative impairments arising from disease, trauma, predisposition, maladaptive learning, or unknown causes. Professional clinical practice follows completion of a master’s degree in speech–language pathology, or a doctor of audiology degree, and involves evaluation and treatment based upon a firm theoretical understanding of normal processes of hearing, and of speech and language formulation, production, and perception. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., law, medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths (Speech-Language Pathologist (SLP) assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education. Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements for the major. Moreover, each program (L&S and Education) has its own general liberal studies requirements involving, for example, sciences, math, foreign language, social studies, and humanities. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech–language pathology and in audiology by the Council on Academic Accreditation of the American Speech–Language–Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication

Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## HOW TO GET IN

Students are urged to consult with an undergraduate academic advisor as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others. To declare the major, students should contact the department. Information about declaring the major is located at Communication Sciences & Disorders (CSD) Undergraduate Studies (<https://csd.wisc.edu/undergraduate.htm>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall  
30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR CS&D COURSES

10 courses and 30 credits from:

Code	Title	Credits
CS&D 201	Speech Science	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 210	Neural Basis of Communication	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial and Fluency Disorders	3

CS&D 320	Introduction to Audiology	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
Total Credits		30

## COURSES IN RELATED AREAS

15 credits and one course from each of the following areas

### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4

### Psychology

Code	Title	Credits
PSYCH 201	Introduction to Psychology	4
PSYCH 281	Honors Course-Introduction to Psychology	4
PSYCH 202	Introduction to Psychology	3-4
HDFS 363	Development from Adolescence to Old Age	3

### Linguistics

Code	Title	Credits
LINGUIS 103	Language, History, and Society	3
LINGUIS 303	Language, History, and Society	3
ENGL 214	The English Language	3
ENGL 314	Structure of English	3
ENGL 318	Second Language Acquisition	3
LINGUIS 237	Language & Immigration in Wisconsin	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 327	Introduction to Spanish Linguistics	3

### Ethnic Studies

Code	Title	Credits
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/CHICLA/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
L I S 202	Informational Divides and Differences in a Multicultural Society	3

ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3
HISTORY 227	Explorations in the History of Race and Ethnicity	3
AMER IND/ ANTHRO 314	Indians of North America	3
ENGL 319	Language, Race, and Identity	3
HISTORY 403	Immigration and Assimilation in American History	3-4
SOC 134	Problems of American Racial and Ethnic Minorities	3-4
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

### Biological Sciences

Code	Title	Credits
BOTANY/BIOLOGY/ ZOOLOGY 151	Introductory Biology	5
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOCHEM 104	Molecular Mechanisms, Human Health & You	3
BIOCORE 381	Evolution, Ecology, and Genetics	3
KINES 235	Human Physiology and Health	4
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
ZOOLOGY/ BIOLOGY 101	Animal Biology	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all CS&D and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in CS&D, taken on the UW–Madison campus

### <sup>1</sup> Upper Level Major Credit Courses

Code	Title	Credits
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 424	Sign Language I	2
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
CS&D 699	Directed Study	1-6

## DISTINCTION IN THE MAJOR

Students majoring in communication sciences and disorders who are not Honors candidates may earn Distinction in the Major, provided that they obtain consent of the department honors advisor, achieve a minimum GPA of 3.750 in CS&D and major courses, and satisfy these requirements:

Code	Title	Credits
<b>Honors credit in two of</b>		
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
<b>Undergraduate Honors Seminar</b>		
CS&D 481	Undergraduate Junior Honors	

## HONORS IN THE MAJOR

Students may declare Honors in the Communication Sciences and Disorders Major in consultation with the undergraduate advisor in that department.

### HONORS IN THE COMMUNICATION SCIENCES AND DISORDERS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Communications Sciences and Disorders students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 in all COM DIS courses, and all courses accepted in the major
- Complete the following courses for Honors earning a grade of B or better in each:

Code	Title	Credits
CS&D 481	Undergraduate Junior Honors	3
Select two of the following for Honors:		6
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis	6
Total Credits		15

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

CS&D advising services are to be focused on students who need to declare the major or who have already declared CS&D and need advising in the major.

**Students seeking to pursue graduate study in speech-language pathology or audiology** are urged to take CS&D 371 Pre-Clinical Observation of Children and Adults (3 cr) –to earn ASHA observation hours which are required for graduate school admission. Enrollment in CS&D 371 is by permission and is restricted to students who have earned a B or better in CS&D 201 Speech Science, CS&D 202 Normal Aspects of Hearing, and CS&D 240 Language Development in Children and Adolescents.

Director of Undergraduate Studies  
Ruth Litovsky, Ph.D.  
undergrad@csd.wisc.edu

Please visit our website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions:

## PEOPLE

Professors Connor, Ellis Weismer, Fowler, Hustad, Kaushanskaya, Litovsky, Thibeault

Associate Professor Ciucci

Assistant Professors Boothalingam, Parrell, Niziolek, Sterling

Visiting Assistant Professors Easwar, Finney, Rountrey

Clinical Professor Quinn

Clinical Associate Professors Buhr-Lawler, Caul, Cohen, Douglas, Eith, Hartman, Kroll, Krug, Lee, Seidel

Lecturer Johnson

## COMMUNICATION SCIENCES AND DISORDERS, B.S.

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech–language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to practice as

licensed and/or certified clinicians in educational and medical/allied-health settings, assisting clients with communicative impairments arising from disease, trauma, predisposition, maladaptive learning, or unknown causes. Professional clinical practice follows completion of a master's degree in speech–language pathology, or a doctor of audiology degree, and involves evaluation and treatment based upon a firm theoretical understanding of normal processes of hearing, and of speech and language formulation, production, and perception. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., law, medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths (Speech-Language Pathologist (SLP) assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education. Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements for the major. Moreover, each program (L&S and Education) has its own general liberal studies requirements involving, for example, sciences, math, foreign language, social studies, and humanities. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech–language pathology and in audiology by the Council on Academic Accreditation of the American Speech–Language–Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## HOW TO GET IN

Students are urged to consult with an undergraduate academic advisor as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others. To declare the major, students should contact the department. Information about declaring the major is located at Communication Sciences & Disorders (CSD) Undergraduate Studies (<https://csd.wisc.edu/undergraduate.htm>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison



## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

### CS&D COURSES

10 courses and 30 credits from:

Code	Title	Credits
CS&D 201	Speech Science	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 210	Neural Basis of Communication	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
Total Credits		30

### COURSES IN RELATED AREAS

15 credits and one course from each of the following areas

#### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4

#### Psychology

Code	Title	Credits
PSYCH 201	Introduction to Psychology	4
PSYCH 281	Honors Course-Introduction to Psychology	4
PSYCH 202	Introduction to Psychology	3-4
HDFS 363	Development from Adolescence to Old Age	3

#### Linguistics

Code	Title	Credits
LINGUIS 103	Language, History, and Society	3
LINGUIS 303	Language, History, and Society	3
ENGL 214	The English Language	3
ENGL 314	Structure of English	3
ENGL 318	Second Language Acquisition	3

LINGUIS 237	Language & Immigration in Wisconsin	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 327	Introduction to Spanish Linguistics	3

#### Ethnic Studies

Code	Title	Credits
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/CHICLA/FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
AFROAMER/HIST SCI/MED HIST 275	Science, Medicine, and Race: A History	3
HISTORY 227	Explorations in the History of Race and Ethnicity	3
AMER IND/ANTHRO 314	Indians of North America	3
ENGL 319	Language, Race, and Identity	3
HISTORY 403	Immigration and Assimilation in American History	3-4
SOC 134	Problems of American Racial and Ethnic Minorities	3-4
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

#### Biological Sciences

Code	Title	Credits
BOTANY/BIOLOGY/ZOOLOGY 151	Introductory Biology	5
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO/BOTANY/ZOOLOGY 410	Evolutionary Biology	3
BIOCHEM 104	Molecular Mechanisms, Human Health & You	3
BIOCORE 381	Evolution, Ecology, and Genetics	3
KINES 235	Human Physiology and Health	4
BIOLOGY/BOTANY/ZOOLOGY 151	Introductory Biology	5
ZOOLOGY/BIOLOGY 101	Animal Biology	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all CS&D and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in CS&D, taken on the UW–Madison campus

### <sup>1</sup> Upper Level Major Credit Courses

Code	Title	Credits
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 424	Sign Language I	2
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
CS&D 699	Directed Study	1-6

## DISTINCTION IN THE MAJOR

Students majoring in communication sciences and disorders who are not Honors candidates may earn Distinction in the Major, provided that they obtain consent of the department honors advisor, achieve a minimum GPA of 3.750 in CS&D and major courses, and satisfy these requirements:

Code	Title	Credits
<b>Honors credit in two of</b>		
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
<b>Undergraduate Honors Seminar</b>		
CS&D 481	Undergraduate Junior Honors	

## HONORS IN THE MAJOR

Students may declare Honors in the Communication Sciences and Disorders Major in consultation with the undergraduate advisor in that department.

## HONORS IN THE COMMUNICATION SCIENCES AND DISORDERS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Communications Sciences and Disorders students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 in all COM DIS courses, and all courses accepted in the major
- Complete the following courses for Honors earning a grade of B or better in each:

Code	Title	Credits
CS&D 481	Undergraduate Junior Honors	3

Select two of the following for Honors:		6
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis	6
Total Credits		15

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

CS&D advising services are to be focused on students who need to declare the major or who have already declared CS&D and need advising in the major.

**Students seeking to pursue graduate study in speech-language pathology or audiology** are urged to take CS&D 371 Pre-Clinical Observation of Children and Adults (3 cr) –to earn ASHA observation hours which are required for graduate school admission. Enrollment in CS&D 371 is by permission and is restricted to students who have earned a B or better in CS&D 201 Speech Science, CS&D 202 Normal Aspects of Hearing, and CS&D 240 Language Development in Children and Adolescents.

Director of Undergraduate Studies  
Ruth Litovsky, Ph.D.  
undergrad@csd.wisc.edu

Please visit our website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions:

## PEOPLE

Professors Connor, Ellis Weismer, Fowler, Hustad, Kaushanskaya, Litovsky, Thibeault

Associate Professor Ciucci

Assistant Professors Boothalingam, Parrell, Niziolek, Sterling

Visiting Assistant Professors Easwar, Finney, Rountrey

Clinical Professor Quinn

Clinical Associate Professors Buhr-Lawler, Caul, Cohen, Douglas, Eith, Hartman, Kroll, Krug, Lee, Seidel

Lecturer Johnson

## COMPARATIVE LITERATURE AND FOLKLORE STUDIES

### OVERVIEW

The Department of Comparative Literature and Folklore Studies offers a major in comparative literature and a certificate in folklore.

**Comparative literature** is the study of literatures in their original languages from a transnational, cross-cultural perspective. The program welcomes students with a diverse range of backgrounds and interests, and with literary reading competence in a language in addition to English. Literary fluency in a language other than English is the basis for work in the comparative literature major.

Comparative literature students and majors study texts from a range of historical periods, geographical and cultural areas, and literary and artistic movements. They learn to critically pose and respond to fundamental questions about the place of literature in society and in cultural and historical traditions.

Majors are introduced to specific modes of literary analysis as well as to general concepts of "literariness." They explore the interaction of literature with other arts and disciplines as well as with the political, social, and intellectual contexts of literature. In this way, students acquire important intellectual skills in critical comparative reading, thinking, and writing.

The small size of most comparative literature classes allows ample opportunity for the discussion and exchange that are essential to the development of such skills. Comparative literature classes also offer challenging research and writing projects that can be carried out individually and in small groups.

A major in comparative literature is valuable preparation for a career in a wide range of fields that demand careful analysis, clear writing, the presentation of logical arguments, and the critical assessment of the written and oral opinions of others—law, business, communications, politics and diplomacy, journalism, technical writing, or publishing. It is ideal for students interested in teaching at the secondary level or in pursuing graduate degrees.

To declare the major in comparative literature, students must have sophomore standing, have taken at least one 200-level course in the department, have a minimum 3.0 GPA, and have established the foundations of literary fluency in a language other than English.

Prospective majors are strongly encouraged to meet with the director of undergraduate studies to discuss the requirements in advance of declaring the major. Declared majors are strongly encouraged to meet

with the director of undergraduate studies in planning their courses each semester. Juniors should arrange a meeting early in the spring semester to assess whether they will have met all requirements for graduation.

**Folklore** is a multidisciplinary field of study concerned with the documentation and analysis of verbal, customary, musical, material, and performance traditions, primarily as they are practiced within cultures, but also as they are revived, modified, even invented by artists, educators, entrepreneurs, activists, communities, and states. The program offers courses on folklore forms, practitioners, performances, theory, methods, and public presentation, with an emphasis on cross-cultural and interdisciplinary approaches. Students interested in folklore as an area of concentration typically major in an arts, humanities, or social science discipline. No formal undergraduate major is offered in folklore, but by planning a course of study with the undergraduate advisor, a student may design an individual major with a folklore concentration. Undergraduate students may also earn a certificate in folklore.

### ADDITIONAL PROGRAM INFORMATION

Courses in comparative literature fall into four general classes:

*Introductory courses (201–299)* are based entirely on English-language texts or English translations of foreign language texts. These courses are open to first-year students and restricted to undergraduates.

*General courses (300–400)* are open to undergraduates. The course texts are in English, but majors and other students who are able to do so are expected to work with one foreign literature in the original language.

*More specialized courses (400–699)* are open to both undergraduate and (with the exception of the proseminar, COMP LIT 690 ) graduate students. Texts used in these courses typically require the knowledge of at least one foreign language.

*Graduate courses (700–999)* involve increasing use of foreign literatures both in the classroom and in individual work.

### DEGREES/MAJORS/CERTIFICATES

- Comparative Literature and Folklore Studies, B.A. (p. 548)
- Comparative Literature and Folklore Studies, B.S. (p. 551)
- Folklore, Certificate (p. 554)

### PEOPLE

#### FACULTY

Professors Dharwadker, Gilmore (also Landscape Architecture), Layoun, Livorni (also French and Italian), Rosenblum (Center for Jewish Studies)

Associate Professors Livanos, Statkiewicz

Assistant Professors Fielder, Grunewald (also Legal Studies), Neyrat, Wells

Academic Staff Beatriz Botero

#### AFFILIATES

Professors Adler (also German, Nordic, and Slavic), Casid (Art History), De Ferrari (Spanish and Portuguese), Garlough (Gender and Women's Studies), Goodkin (French and Italian), Guyer (English), Kern (Asian

Languages and Cultures), Longinovic (German, Nordic, and Slavic), Rosenmeyer (Classical and Ancient Near Eastern Studies), Santos (University of Coimbra, Portugal)

Academic Staff: Scott Mellor (German, Nordic, and Slavic), Ruth Olson (Center for the Study of Upper Midwestern Cultures)

## HONORARY AFFILIATES

Professors Brenner (Center for Jewish Studies), Bühnemann (Asian Languages and Cultures), Gross (German, Nordic, and Slavic), Klug (Law)

# COMPARATIVE LITERATURE AND FOLKLORE STUDIES, B.A.

## OVERVIEW

The Department of Comparative Literature and Folklore Studies offers a major in comparative literature and a certificate in folklore.

**Comparative literature** is the study of literatures in their original languages from a transnational, cross-cultural perspective. The program welcomes students with a diverse range of backgrounds and interests, and with literary reading competence in a language in addition to English. Literary fluency in a language other than English is the basis for work in the comparative literature major.

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The small size of most comparative literature classes allows ample opportunity for the discussion and exchange that are essential to the development of such skills. Comparative literature classes also offer challenging research and writing projects that can be carried out individually and in small groups.

A major in comparative literature is valuable preparation for a career in a wide range of fields that demand careful analysis, clear writing, the presentation of logical arguments, and the critical assessment of the written and oral opinions of others—law, business, communications, politics and diplomacy, journalism, technical writing, or publishing. It is ideal for students interested in teaching at the secondary level or in pursuing graduate degrees.

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Prospective majors are strongly encouraged to meet with the director of undergraduate studies to discuss the requirements in advance of declaring the major. Declared majors are strongly encouraged to meet with the director of undergraduate studies in planning their courses each

semester. Juniors should arrange a meeting early in the spring semester to assess whether they will have met all requirements for graduation.

**Folklore** is a multidisciplinary field of study concerned with the documentation and analysis of verbal, customary, musical, material, and performance traditions, primarily as they are practiced within cultures, but also as they are revived, modified, even invented by artists, educators, entrepreneurs, activists, communities, and states. The program offers courses on folklore forms, practitioners, performances, theory, methods, and public presentation, with an emphasis on cross-cultural and interdisciplinary approaches. Students interested in folklore as an area of concentration typically major in an arts, humanities, or social science discipline. No formal undergraduate major is offered in folklore, but by planning a course of study with the undergraduate advisor, a student may design an individual major with a folklore concentration. Undergraduate students may also earn a certificate in folklore.

## ADDITIONAL PROGRAM INFORMATION

Courses in comparative literature fall into four general classes:

*Introductory courses (201–299)* are based entirely on English-language texts or English translations of foreign language texts. These courses are open to first-year students and restricted to undergraduates.

*General courses (300–400)* are open to undergraduates. The course texts are in English, but majors and other students who are able to do so are expected to work with one foreign literature in the original language.

*More specialized courses (400–699)* are open to both undergraduate and (with the exception of the proseminar, COMP LIT 690 ) graduate students. Texts used in these courses typically require the knowledge of at least one foreign language.

*Graduate courses (700–999)* involve increasing use of foreign literatures both in the classroom and in individual work.

## HOW TO GET IN

To declare the major in comparative literature, students must have sophomore standing, have taken at least one 200-level course in the department, have a minimum 3.0 GPA, and have established the foundations of literary fluency in a language other than English.

Prospective majors are strongly encouraged to meet with the director of undergraduate studies to discuss the requirements in advance of declaring the major. Declared majors are strongly encouraged to meet with the director of undergraduate studies in planning their courses each semester. Juniors should arrange a meeting early in the spring semester to assess whether they will have met all requirements for graduation.

Students interested in comparative literature and folklore studies should contact the department via email at [complit@lss.wisc.edu](mailto:complit@lss.wisc.edu) or by calling 608-262-3059 to schedule an appointment with the undergraduate advisor. Students can also go to 2402 Sterling Hall at 475 North Charter Street to get general information about the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

#### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

The major requires a total of 30 credits in Comparative Literature (COMP LIT), plus 9 credits in literature in a single foreign language for a total of 39 credits.

Code	Title	Credits
<i>Comparative Literature Courses</i>		
Two courses (6 credits total) from the following 200-level courses:		
COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	
COMP LIT 202	Introduction to Modern and Contemporary Literature	
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	
COMP LIT 205	Intro to Comparative Study of Race & Ethnicity, In & Beyond the U.S.	
Two courses (6 credits) from the following literary criticism and theory courses:		
COMP LIT 310	Introduction to Literary Criticism	
COMP LIT 371	Literary Criticism	
COMP LIT 475	Poetics and Literary Theory	
Must also include (3 credits) proseminar:		
COMP LIT 690	Proseminar	
<i>Foreign Language</i>		

9 credits in literature or culture courses in a single foreign language, with a final grade of B or better in each course. Independent study or literature in translation courses will not count toward this requirement.

Select 15 additional credits at the Intermediate or Advanced levels (300 level and above) to reach 39 credit minimum for the Major:

COMP LIT 350	Problems in Comparative Literatures and Cultures
COMP LIT 351	Lyric
COMP LIT 357	Fantasy and Science Fiction
COMP LIT 368	Literature and Ideas
COMP LIT 375	Literature and Related Disciplines
COMP LIT 379	Literature and Ethnic Experience
COMP LIT 358	Problems in Transnational Genre and Mode
COMP LIT 370	Comparative Problems in Periods and Movements
COMP LIT 466	Literature, Media, the Arts
COMP LIT 473	Thematics
COMP LIT 500	The Comparative In and Beyond Comparative Literature
COMP LIT 681	Senior Honors Thesis
COMP LIT 682	Senior Honors Thesis
COMP LIT 691	Senior Thesis
COMP LIT 692	Senior Thesis
COMP LIT 698	Directed Study
COMP LIT 699	Directed Study

The Senior Thesis (COMP LIT 691 Senior Thesis–COMP LIT 692 Senior Thesis, for a total of 6 credits) is strongly recommended (though not required) for non-honors majors.

Introduction to Literary Criticism (COMP LIT 310 Introduction to Literary Criticism) is strongly advised as a bridge between the 200-level courses and the 300- and 400-level courses.

Work in the major must show a degree of continuity. The exact configuration of courses in the major will be determined individually for each student in consultation with the director of undergraduate studies.

Majors are strongly encouraged to maintain a GPA of 3.250 for coursework in the major.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all COMP LIT courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits, in COMP LIT, taken on campus

<sup>1</sup> COMP LIT 300 through COMP LIT 699, that carry the intermediate or advanced designation, are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Comparative Literature and Folklore Studies Major in consultation with the undergraduate advisor in the department.

## HONORS IN THE COMPARATIVE LITERATURE AND FOLKLORE STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Comparative Literature and Folklore Studies Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COMP LIT courses, and all courses accepted in the major
- Complete 39 credits in COMP LIT, to include:
  - 9 credits of COMP LIT, taken for Honors, at the 300 level or above
  - A two-semester Senior Honors Thesis in COMP LIT 681 Senior Honors Thesis and COMP LIT 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

Students are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help students leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

## CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

Professors Dharwadkar, Gilmore (also Landscape Architecture), Layoun, Livorni (also French and Italian), Rosenblum (Center for Jewish Studies)

Associate Professors Livanos, Statkiewicz

Assistant Professors Fielder, Grunewald (also Legal Studies), Neyrat, Wells

Academic Staff Beatriz Botero

### AFFILIATES

Professors Adler (also German, Nordic, and Slavic), Casid (Art History), De Ferrari (Spanish and Portuguese), Garlough (Gender and Women's Studies), Goodkin (French and Italian), Guyer (English), Kern (Asian Languages and Cultures), Longinovic (German, Nordic, and Slavic), Rosenmeyer (Classical and Ancient Near Eastern Studies), Santos (University of Coimbra, Portugal)

Academic Staff: Scott Mellor (German, Nordic, and Slavic), Ruth Olson (Center for the Study of Upper Midwestern Cultures)

### HONORARY AFFILIATES

Professors Brenner (Center for Jewish Studies), Bühnemann (Asian Languages and Cultures), Gross (German, Nordic, and Slavic), Klug (Law)

## COMPARATIVE LITERATURE AND FOLKLORE STUDIES, B.S.

### OVERVIEW

The Department of Comparative Literature and Folklore Studies offers a major in comparative literature and a certificate in folklore.

**Comparative literature** is the study of literatures in their original languages from a transnational, cross-cultural perspective. The program welcomes students with a diverse range of backgrounds and interests, and with literary reading competence in a language in addition to English. Literary fluency in a language other than English is the basis for work in the comparative literature major.

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Majors are introduced to specific modes of literary analysis as well as to general concepts of "literariness." They explore the interaction of literature with other arts and disciplines as well as with the political, social, and intellectual contexts of literature. In this way, students acquire

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## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major

Total Credits

UW-Madison Experience

Minimum GPAs

2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

The major requires a total of 30 credits in Comparative Literature (COMP LIT), plus 9 credits in literature in a single foreign language for a total of 39 credits.

Code	Title	Credits
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COMP LIT 203	Introduction to Cross-Cultural Literary Forms	
COMP LIT 205	Intro to Comparative Study of Race & Ethnicity, In & Beyond the U.S.	



Two courses (6 credits) from the following literary criticism and theory courses:

COMP LIT 310	Introduction to Literary Criticism
COMP LIT 371	Literary Criticism
COMP LIT 475	Poetics and Literary Theory

Must also include (3 credits) proseminar:

COMP LIT 690	Proseminar
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#### Foreign Language

9 credits in literature or culture courses in a single foreign language, with a final grade of B or better in each course. Independent study or literature in translation courses will not count toward this requirement.

Select 15 additional credits at the Intermediate or Advanced levels (300 level and above) to reach 39 credit minimum for the Major:

COMP LIT 350	Problems in Comparative Literatures and Cultures
COMP LIT 351	Lyric
COMP LIT 357	Fantasy and Science Fiction
COMP LIT 368	Literature and Ideas
COMP LIT 375	Literature and Related Disciplines
COMP LIT 379	Literature and Ethnic Experience
COMP LIT 358	Problems in Transnational Genre and Mode
COMP LIT 370	Comparative Problems in Periods and Movements
COMP LIT 466	Literature, Media, the Arts
COMP LIT 473	Thematics
COMP LIT 500	The Comparative In and Beyond Comparative Literature
COMP LIT 681	Senior Honors Thesis
COMP LIT 682	Senior Honors Thesis
COMP LIT 691	Senior Thesis
COMP LIT 692	Senior Thesis
COMP LIT 698	Directed Study
COMP LIT 699	Directed Study

The Senior Thesis (COMP LIT 691 Senior Thesis–COMP LIT 692 Senior Thesis, for a total of 6 credits) is strongly recommended (though not required) for non-honors majors.

Introduction to Literary Criticism (COMP LIT 310 Introduction to Literary Criticism) is strongly advised as a bridge between the 200-level courses and the 300- and 400-level courses.

Work in the major must show a degree of continuity. The exact configuration of courses in the major will be determined individually for each student in consultation with the director of undergraduate studies.

Majors are strongly encouraged to maintain a GPA of 3.250 for coursework in the major.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all COMP LIT courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits, in COMP LIT, taken on campus

<sup>1</sup> COMP LIT 300 through COMP LIT 699, that carry the intermediate or advanced designation, are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Comparative Literature and Folklore Studies Major in consultation with the undergraduate advisor in the department.

## HONORS IN THE COMPARATIVE LITERATURE AND FOLKLORE STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Comparative Literature and Folklore Studies Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COMP LIT courses, and all courses accepted in the major
- Complete 39 credits in COMP LIT, to include:
  - 9 credits of COMP LIT, taken for Honors, at the 300 level or above
  - A two-semester Senior Honors Thesis in COMP LIT 681 Senior Honors Thesis and COMP LIT 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

Students are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help students leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

## CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

Professors Dharwadker, Gilmore (also Landscape Architecture), Layoun, Livorni (also French and Italian), Rosenblum (Center for Jewish Studies)

Associate Professors Livanos, Statkiewicz

Assistant Professors Fielder, Grunewald (also Legal Studies), Neyrat, Wells

Academic Staff Beatriz Botero

### AFFILIATES

Professors Adler (also German, Nordic, and Slavic), Casid (Art History), De Ferrari (Spanish and Portuguese), Garlough (Gender and Women's Studies), Goodkin (French and Italian), Guyer (English), Kern (Asian Languages and Cultures), Longinovic (German, Nordic, and Slavic), Rosenmeyer (Classical and Ancient Near Eastern Studies), Santos (University of Coimbra, Portugal)

Academic Staff: Scott Mellor (German, Nordic, and Slavic), Ruth Olson (Center for the Study of Upper Midwestern Cultures)

### HONORARY AFFILIATES

Professors Brenner (Center for Jewish Studies), Bühnemann (Asian Languages and Cultures), Gross (German, Nordic, and Slavic), Klug (Law)

## FOLKLORE, CERTIFICATE

The certificate in folklore is available to students working for a baccalaureate degree in any UW–Madison school or college, and to Special students. The purpose of the certificate is to acquaint students with the nature of folklore, its study, its public presentation, and its relations to a range of human experiences, intellectual currents, and professional endeavors.

### HOW TO GET IN

Students interested in pursuing a certificate in folklore studies should contact the undergraduate advisor (Dr. Beatriz Botero (<http://cfs.wisc.edu/people/faculty>)) at their earliest convenience.

## REQUIREMENTS

### REQUIREMENTS FOR THE FOLKLORE CERTIFICATE

At least four courses must be at the 300 level or above. Directed Study (FOLKLORE 399 Directed Study in Folklore for Undergraduates) may be used to satisfy one cluster requirement, but only with the approval of the certificate advisor and the director of the certificate program. Certificate seekers are urged to consult the undergraduate advisor at the earliest possible opportunity.

Select 15 credits, including at least one course from each of the following four clusters:

#### INTRODUCTIONS TO THE FIELD:

Code	Title	Credits
FOLKLORE 100	Introduction to Folklore	3
FOLKLORE 230	Introduction to American Folklore	3

#### GENRES OF FOLKLORE:

Code	Title	Credits
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4
FOLKLORE 220	The Folk Tale	3
FOLKLORE/ RELIG ST 352	Shamanism	3
FOLKLORE/ RELIG ST 359	Myth	3
FOLKLORE 451	The Supernatural in the Modern World	3
FOLKLORE 460	Folk Epics	3
FOLKLORE/ ANTHRO/MUSIC/ THEATRE 539	The Folklore of Festivals and Celebrations	3
FOLKLORE/ DS 655 655	Comparative World Dress	3

#### FOLKLORE AND CULTURAL AREAS:

Code	Title	Credits
FOLKLORE/ ASIAN AM/ CHICLA 102	Introduction to Comparative Ethnic Studies	3-4
FOLKLORE/ AFRICAN 210	The African Storyteller	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
FOLKLORE 320	Folklore of Wisconsin	3
FOLKLORE/ THEATRE 326	Introduction to Asian Performance	3-4

FOLKLORE/ LITTRANS/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/LCA 374	Indian Folklore	3
FOLKLORE/ MUSIC 401	Musical Cultures of the World	3
FOLKLORE/ MUSIC 402	Musical Cultures of the World	3
FOLKLORE/ MUSIC 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
FOLKLORE/ AFRICAN 411	African Poetry	3-4
FOLKLORE/ AMER IND/ ANTHRO 431	American Indian Folklore	3
FOLKLORE/ AMER IND/ANTHRO/ GEN&WS 437	American Indian Women	3
FOLKLORE/ SCAND ST 440	Scandinavian American Folklore	3
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE 517	The Irish Tradition	3
FOLKLORE 518	The Scottish Tradition	3
FOLKLORE/ MUSIC 535	American Folk and Vernacular Music	3
FOLKLORE 540	Local Culture and Identity in the Upper Midwest	3
FOLKLORE 630	Seminar on American Folklore	3
FOLKLORE/ DS 640 640	Topics in Ethnographic Textiles	3

## ISSUES, THEORIES, METHODS:

Code	Title	Credits
FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
FOLKLORE 428	Gender and Expressive Culture	3
FOLKLORE/ AFRICAN 471	Oral Traditions and the Written Word	3-4
FOLKLORE/L I S 490	Field Methods and the Public Presentation of Folklore	3
FOLKLORE 491	Practicum in Public Folklore	1-3
FOLKLORE 510	Folklore Theory	3
FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3

FOLKLORE/ MUSIC 515	Proseminar in Ethnomusicology	3
FOLKLORE/ ANTHRO 520	Ethnic Representations in Wisconsin	4
FOLKLORE 530	Topics in Folklore	1-3
FOLKLORE 560	Folklore in a Digital Age	3
FOLKLORE/ ANTHRO 639	Field School: Ethnography of Wisconsin Festivals	6-8

## RESIDENCE AND QUALITY OF WORK

8 certificate credits taken in residence

2.000 GPA in all courses eligible for the certificate

## PEOPLE

### FACULTY

Professors Dharwadker, Gilmore (also Landscape Architecture), Layoun, Livorni (also French and Italian), Rosenblum (Center for Jewish Studies)

Associate Professors Livanos, Statkiewicz

Assistant Professors Fielder, Grunewald (also Legal Studies), Neyrat, Wells

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Academic Staff: Scott Mellor (German, Nordic, and Slavic), Ruth Olson (Center for the Study of Upper Midwestern Cultures)

### HONORARY AFFILIATES

Professors Brenner (Center for Jewish Studies), Bühnemann (Asian Languages and Cultures), Gross (German, Nordic, and Slavic), Klug (Law)

## COMPUTER SCIENCES

Our graduates discover that **computer science (CS)** opens up a world of possibilities.

Computer scientists enjoy **exceptional career opportunities**, in settings ranging from large, established companies to adventurous new start-ups. They are also well qualified to pursue graduate study in a number of fields.

Our students are **creative, analytical problem-solvers**. This is a rich, collaborative and varied field that you will find challenging, no matter where your individual interests lie.

And there is more to CS than programming. While **software engineering** is an important skill, computer scientists also **work with robots** and other physical devices, **design hardware that runs faster** and more efficiently,

and **apply machine learning techniques** to gain insight from large data sets—to name just a few examples.

Because CS has become highly **interconnected with medicine, business and many other fields**, it is a great fit with other interests you may have. You will enjoy a strong career outlook while having an **impact on society**.

## DEGREES/MAJORS/CERTIFICATES

- Computer Sciences, B.A. (p. 556)
- Computer Sciences, B.S. (p. 560)
- Computer Sciences, Certificate (p. 565)

## PEOPLE

Professors A. Arpaci-Dusseau, R. Arpaci-Dusseau, Bach, Barford, Banerjee, Cai, Doan, Dyer, Ferris, Gleicher, Hill, Jha, Livny, Miller, Patel, Reps, Ron, Shavlik, Sohi, van Melkebeek, Wood, Wright, Zhu

Associate Professors Akella, Chawla, Liblit, Mutlu, Sankaralingam, Swift

Assistant Professors Albarghouthi, D'Antoni, Gupta, Koutris, Sifakis

Faculty Associates Dahl, Deppeler, Hasti, Legault, Lewis-Williams, Skrentny, Williams

## COMPUTER SCIENCES, B.A.

Our graduates discover that **computer science (CS)** opens up a world of possibilities.

Computer scientists enjoy **exceptional career opportunities**, in settings ranging from large, established companies to adventurous new start-ups. They are also well qualified to pursue graduate study in a number of fields.

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Because CS has become highly **interconnected with medicine, business and many other fields**, it is a great fit with other interests you may have. You will enjoy a strong career outlook while having an **impact on society**.

## HOW TO GET IN

### DECLARATION REQUIREMENTS

To declare the computer sciences major, students must complete **one** Comp Sci course at UW–Madison **and** achieve a grade of "C" or better in that course. The course must be worth 2 or more credits.

Information on declaring the major is available on the Department of Computer Sciences advising pages (<https://www.cs.wisc.edu/advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

- L&S Breadth
- Humanities, 12 credits: 6 of the 12 credits must be in literature
  - Social Sciences, 12 credits
  - Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

### INTRODUCTORY PROGRAMMING PREREQUISITE

Code	Title	Credits
<b>Select one of the following courses:</b>		<b>3</b>
COMP SCI 200	Programming I (recommended)	
COMP SCI 301	Introduction to Data Programming	
COMP SCI 302	Introduction to Programming	
COMP SCI 310	Problem Solving Using Computers	
E C E 203	Signals, Information, and Computation	

### REQUIRED COURSEWORK

Code	Title	Credits
No course may be used to satisfy more than one requirement in the computer sciences major.		
Courses taken on a pass/fail basis will not count toward any major requirements.		

### BASIC COMPUTER SCIENCES

Code	Title	Credits
<b>Complete all of the following courses:</b>		<b>14</b>
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	
COMP SCI/ E C E 252	Introduction to Computer Engineering	
COMP SCI 300	Programming II	

COMP SCI/ E C E 354	Machine Organization and Programming
COMP SCI 400	Programming III

### BASIC CALCULUS

Code	Title	Credits
<b>Select one of the following options:</b>		<b>9-14</b>
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	

### ADDITIONAL MATHEMATICS

Code	Title	Credits
<b>Select two from the following:</b>		<b>6-10</b>
MATH 340	Elementary Matrix and Linear Algebra (recommended) <sup>1</sup>	
STAT 324	Introductory Applied Statistics for Engineers (recommended)	
COMP SCI 412	Introduction to Numerical Methods <sup>2</sup>	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/ I SY E/ MATH/STAT 525	Linear Programming Methods	
COMP SCI/ I SY E 526	Advanced Linear Programming	
MATH 234	Calculus—Functions of Several Variables <sup>1</sup>	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 331	An Introduction to Probability and Markov Chain Models	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra <sup>1</sup>	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 443	Applied Linear Algebra	

MATH 461	College Geometry I
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics
MATH 521	Analysis I
MATH 541	Modern Algebra
MATH 542	Modern Algebra
MATH 567	Elementary Number Theory
MATH/ PHILOS 571	Mathematical Logic
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
E C E 331	Introduction to Random Signal Analysis and Statistics

<sup>1</sup> MATH 375 may not be combined with MATH 234 Calculus--Functions of Several Variables, MATH 320 Linear Algebra and Differential Equations, or MATH 340 Elementary Matrix and Linear Algebra. The math department may have additional restrictions on giving credit to certain pairs of math courses.

## ADVANCED COMPUTER SCIENCES

Code	Title	Credits
Some of the advanced COMP SCI courses listed below have prerequisites not specifically required for the major. It is recommended that students plan ahead to ensure prerequisites are completed in advance of their selected coursework.		

### THEORY

Code	Title	Credits
<b>Select one of the following courses:</b>		3
COMP SCI 577	Introduction to Algorithms (recommended)	
COMP SCI 520	Introduction to Theory of Computing	

### SOFTWARE/HARDWARE

Code	Title	Credits
<b>Select two of the following courses:</b>		6-8
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers <sup>1</sup>	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 538	Introduction to the Theory and Design of Programming Languages <sup>1</sup>	

COMP SCI/ E C E 552	Introduction to Computer Architecture
COMP SCI 564	Database Management Systems: Design and Implementation
COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security

<sup>1</sup> COMP SCI 536 Introduction to Programming Languages and Compilers may not be combined with COMP SCI 538 Introduction to the Theory and Design of Programming Languages.

## APPLICATIONS

Code	Title	Credits
<b>Select one of the following courses:</b>		
COMP SCI 412	Introduction to Numerical Methods <sup>1</sup>	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	
COMP SCI 534	Computational Photography	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 545	Natural Language and Computing	
COMP SCI 547	Computer Systems Modeling Fundamentals	
COMP SCI 559	Computer Graphics	
COMP SCI 570	Introduction to Human-Computer Interaction	

<sup>1</sup> COMP SCI 412 Introduction to Numerical Methods is used to satisfy the "Additional Mathematics" requirement, it cannot satisfy the "Applications" requirement.

## COMPUTER SCIENCES ELECTIVES

Code	Title	Credits
<b>Select two of the following courses:</b>		6-8
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ STAT 471	Introduction to Computational Statistics	
COMP SCI/MATH/ STAT 475	Introduction to Combinatorics	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI/ MATH 513	Numerical Linear Algebra	

COMP SCI/ MATH 514	Numerical Analysis
COMP SCI 520	Introduction to Theory of Computing
COMP SCI/E C E/ I SY E 524	Introduction to Optimization
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods
COMP SCI/ I SY E 526	Advanced Linear Programming
COMP SCI/E C E/ M E 532	Theory and Applications of Pattern Recognition
COMP SCI/ E C E 533	Image Processing
COMP SCI 534	Computational Photography
COMP SCI 536	Introduction to Programming Languages and Compilers
COMP SCI 537	Introduction to Operating Systems
COMP SCI 538	Introduction to the Theory and Design of Programming Languages
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Network and Fuzzy Systems
COMP SCI 540	Introduction to Artificial Intelligence
COMP SCI 545	Natural Language and Computing
COMP SCI 547	Computer Systems Modeling Fundamentals
COMP SCI/ E C E 552	Introduction to Computer Architecture
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry
COMP SCI 559	Computer Graphics
COMP SCI 564	Database Management Systems: Design and Implementation
COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI 570	Introduction to Human-Computer Interaction
COMP SCI/ B M I 576	Introduction to Bioinformatics
COMP SCI 577	Introduction to Algorithms
COMP SCI/ DS 579 579	Virtual Reality
COMP SCI/ I SY E 635	Tools and Environments for Optimization
COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security
COMP SCI 679	Computer Game Technology

### RESIDENCE AND QUALITY OF WORK:

2.000 GPA in all COMP SCI courses and courses counting toward the major

2.000 GPA on 15 upper-level credits, taken in residence<sup>1</sup>

15 credits in COMP SCI, taken on campus

<sup>1</sup> COMP SCI courses numbered 400 and higher count as Upper-Level.

### DISTINCTION IN THE MAJOR:

Code	Title	Credits
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Distinction in the major is awarded automatically upon graduation to computer sciences majors who meet the qualifications below.

### QUALIFICATIONS FOR DISTINCTION IN THE COMPUTER SCIENCES MAJOR

Code	Title	Credits
------	-------	---------

3.750 GPA in all COMP SCI courses and courses counting toward the major

*OR*

3.500 GPA in all COMP SCI courses and courses counting toward the major, plus completion of one of the following:

- Completion of COMP SCI 691 & COMP SCI 692 for at least 6 credits, or

- One COMP SCI course, at the 500 level or above, and counted towards the major, must be taken for honors credit and completed with a grade of "B" or better

### HONORS IN THE MAJOR

Students may declare Honors in the Computer Sciences Major in consultation with the Computer Sciences undergraduate coordinator(s).

### HONORS IN THE COMPUTER SCIENCES MAJOR REQUIREMENTS

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COMP SCI courses, and all courses accepted in the major
- Complete the following coursework, earning a B or better in each individual course:
  - One COMP SCI course, at the 500 level or above, taken for Honors credit, which counts toward the COMP SCI major
  - A two-semester Senior Honors Thesis in COMP SCI 681 Senior Honors Thesis and COMP SCI 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> The thesis proposal must be approved by both the thesis/project advisor and the department undergraduate coordinator before enrollment in COMP SCI 681. A final thesis or project must be filed with the Department of Computer Sciences before a final grade for COMP SCI 682 can be awarded.

### UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
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Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

internships, prepare for the job search and/or graduate school applications, and network with professionals in the field.

**Department of Computer Sciences:** the department hosts one major career fair (<https://www.cs.wisc.edu/connect/job-fair>) per year, in the fall, as well as other opportunities to connect with employers, such as technical talks and information sessions.

**Letters & Science Career Services:** L&S Career Services (<http://careers.ls.wisc.edu>) offers two major career fairs per year, assists with resume writing and interviewing skills, and offers individual career advising appointments for L&S students.

**Engineering Career Services (ECS):** ECS (<https://ecs.engr.wisc.edu/public>) offers two major career fairs per year, assists with resume writing and interviewing skills, and hosts workshops on the job search.

## LEARNING OUTCOMES

Upon graduation, students will be able to:

1. Recognize and apply the core principles of Computing (abstractions and algorithms) to solve real-world problems.
2. Describe and apply the theoretical foundations of Computer Science (e.g., complexity analysis) in practical settings.
3. Demonstrate knowledge of key elements of computer systems, e.g., hardware, operating systems, networks.
4. Use fundamental and detailed knowledge, skills, and tools (e.g., specific algorithms, techniques methods, etc.) of computer science and develop the ability to acquire new knowledge, skills, and tools.
5. Design, implement, and evaluate software in multiple programming paradigms and languages.
6. Develop a substantial piece of software, and recognize the challenges of designing and developing software.
7. Exhibit technical (designing, implementing, and testing) and teamwork (communication, collaboration, and professional practice) skills in order to develop solutions as a computer science practitioner.
8. Can solve problems by applying a broad toolbox of knowledge and techniques.

## ADVISING AND CAREERS

### ADVISING

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the computer sciences major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/advisors>).

### CAREERS

Demand for those with a computer sciences education is exceptionally strong. According to figures from the U.S. Bureau of Labor Statistics, the vast majority of growth in STEM (science, technology, engineering, and math) occupations through 2020 will occur within computing fields.

Computer sciences majors are encouraged to begin working on their career exploration and preparation soon after arriving on campus to explore different career paths, participate in co-ops or summer

## PEOPLE

Professors A. Arpaci-Dusseau, R. Arpaci-Dusseau, Bach, Barford, Banerjee, Cai, Doan, Dyer, Ferris, Gleicher, Hill, Jha, Livny, Miller, Patel, Reps, Ron, Shavlik, Sohi, van Melkebeek, Wood, Wright, Zhu

Associate Professors Akella, Chawla, Liblit, Mutlu, Sankaralingam, Swift

Assistant Professors Albarghouthi, D’Antoni, Gupta, Koutris, Sifakis

Faculty Associates Dahl, Deppeler, Hasti, Legault, Lewis-Williams, Skrentny, Williams

## RESOURCES AND SCHOLARSHIPS

Visit [Scholarships@UW-Madison](mailto:Scholarships@UW-Madison) (<https://scholarships.wisc.edu/Scholarships>) to find UW–Madison scholarships and apply online.

Visit the scholarships page (<https://www.cs.wisc.edu/academics/scholarships>) on the Department of Computer Sciences website for a compendium of opportunities available to students studying computer sciences.

## COMPUTER SCIENCES, B.S.

Our graduates discover that **computer science (CS)** opens up a world of possibilities.

Computer scientists enjoy **exceptional career opportunities**, in settings ranging from large, established companies to adventurous new start-ups. They are also well qualified to pursue graduate study in a number of fields.

Our students are **creative, analytical problem-solvers**. This is a rich, collaborative and varied field that you will find challenging, no matter where your individual interests lie.

And there is more to CS than programming. While **software engineering** is an important skill, computer scientists also **work with robots** and other physical devices, **design hardware that runs faster** and more efficiently, and **apply machine learning techniques** to gain insight from large data sets—to name just a few examples.



Because CS has become highly **interconnected with medicine, business and many other fields**, it is a great fit with other interests you may have. You will enjoy a strong career outlook while having an **impact on society**.

## HOW TO GET IN

### DECLARATION REQUIREMENTS

To declare the computer sciences major, students must complete **one** Comp Sci course at UW–Madison **and** achieve a grade of "C" or better in that course. The course must be worth 2 or more credits.

Information on declaring the major is available on the Department of Computer Sciences advising pages (<https://www.cs.wisc.edu/advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

#### INTRODUCTORY PROGRAMMING PREREQUISITE

Code	Title	Credits
<b>Select one of the following courses:</b>		<b>3</b>
COMP SCI 200	Programming I (recommended)	
COMP SCI 301	Introduction to Data Programming	
COMP SCI 302	Introduction to Programming	
COMP SCI 310	Problem Solving Using Computers	
E C E 203	Signals, Information, and Computation	

#### REQUIRED COURSEWORK

Code	Title	Credits
No course may be used to satisfy more than one requirement in the computer sciences major.		
Courses taken on a pass/fail basis will not count toward any major requirements.		

**BASIC COMPUTER SCIENCES**

Code	Title	Credits
<b>Complete all of the following courses:</b>		
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	14
COMP SCI/ E C E 252	Introduction to Computer Engineering	
COMP SCI 300	Programming II	
COMP SCI/ E C E 354	Machine Organization and Programming	
COMP SCI 400	Programming III	

**BASIC CALCULUS**

Code	Title	Credits
<b>Select one of the following options:</b>		
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	9-14
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	

**ADDITIONAL MATHEMATICS**

Code	Title	Credits
<b>Select two from the following:</b>		
MATH 340	Elementary Matrix and Linear Algebra (recommended) <sup>1</sup>	6-10
STAT 324	Introductory Applied Statistics for Engineers (recommended)	
COMP SCI 412	Introduction to Numerical Methods <sup>2</sup>	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	
COMP SCI/ I SY E 526	Advanced Linear Programming	
MATH 234	Calculus–Functions of Several Variables <sup>1</sup>	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 331	An Introduction to Probability and Markov Chain Models	

MATH 341	Linear Algebra
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra <sup>1</sup>
MATH 376	Topics in Multi-Variable Calculus and Differential Equations
MATH/STAT 431	Introduction to the Theory of Probability
MATH 443	Applied Linear Algebra
MATH 461	College Geometry I
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics
MATH 521	Analysis I
MATH 541	Modern Algebra
MATH 542	Modern Algebra
MATH 567	Elementary Number Theory
MATH/ PHILOS 571	Mathematical Logic
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
E C E 331	Introduction to Random Signal Analysis and Statistics

<sup>1</sup> MATH 375 may not be combined with MATH 234 Calculus–Functions of Several Variables, MATH 320 Linear Algebra and Differential Equations, or MATH 340 Elementary Matrix and Linear Algebra. The math department may have additional restrictions on giving credit to certain pairs of math courses.

**ADVANCED COMPUTER SCIENCES**

Code	Title	Credits
Some of the advanced COMP SCI courses listed below have prerequisites not specifically required for the major. It is recommended that students plan ahead to ensure prerequisites are completed in advance of their selected coursework.		
<b>THEORY</b>		
<b>Code Title Credits</b>		
<b>Select one of the following courses:</b>		
COMP SCI 577	Introduction to Algorithms (recommended)	3
COMP SCI 520	Introduction to Theory of Computing	

**SOFTWARE/HARDWARE**

Code	Title	Credits
<b>Select two of the following courses:</b>		
COMP SCI 407	Foundations of Mobile Systems and Applications	6-8

COMP SCI/ E C E 506	Software Engineering
COMP SCI 536	Introduction to Programming Languages and Compilers <sup>1</sup>
COMP SCI 537	Introduction to Operating Systems
COMP SCI 538	Introduction to the Theory and Design of Programming Languages <sup>1</sup>
COMP SCI/ E C E 552	Introduction to Computer Architecture
COMP SCI 564	Database Management Systems: Design and Implementation
COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security

<sup>1</sup> COMP SCI 536 Introduction to Programming Languages and Compilers may not be combined with COMP SCI 538 Introduction to the Theory and Design of Programming Languages.

### APPLICATIONS

Code	Title	Credits
<b>Select one of the following courses:</b>		
COMP SCI 412	Introduction to Numerical Methods <sup>1</sup>	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	
COMP SCI 534	Computational Photography	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 545	Natural Language and Computing	
COMP SCI 547	Computer Systems Modeling Fundamentals	
COMP SCI 559	Computer Graphics	
COMP SCI 570	Introduction to Human-Computer Interaction	

<sup>1</sup> COMP SCI 412 Introduction to Numerical Methods is used to satisfy the "Additional Mathematics" requirement, it cannot satisfy the "Applications" requirement.

### COMPUTER SCIENCES ELECTIVES

Code	Title	Credits
<b>Select two of the following courses:</b>		
COMP SCI 407	Foundations of Mobile Systems and Applications	6-8
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	

COMP SCI/ STAT 471	Introduction to Computational Statistics
COMP SCI/MATH/ STAT 475	Introduction to Combinatorics
COMP SCI/ E C E 506	Software Engineering
COMP SCI/ MATH 513	Numerical Linear Algebra
COMP SCI/ MATH 514	Numerical Analysis
COMP SCI 520	Introduction to Theory of Computing
COMP SCI/E C E/ I SY E 524	Introduction to Optimization
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods
COMP SCI/ I SY E 526	Advanced Linear Programming
COMP SCI/E C E/ M E 532	Theory and Applications of Pattern Recognition
COMP SCI/ E C E 533	Image Processing
COMP SCI 534	Computational Photography
COMP SCI 536	Introduction to Programming Languages and Compilers
COMP SCI 537	Introduction to Operating Systems
COMP SCI 538	Introduction to the Theory and Design of Programming Languages
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Network and Fuzzy Systems
COMP SCI 540	Introduction to Artificial Intelligence
COMP SCI 545	Natural Language and Computing
COMP SCI 547	Computer Systems Modeling Fundamentals
COMP SCI/ E C E 552	Introduction to Computer Architecture
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry
COMP SCI 559	Computer Graphics
COMP SCI 564	Database Management Systems: Design and Implementation
COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI 570	Introduction to Human-Computer Interaction
COMP SCI/ B M I 576	Introduction to Bioinformatics
COMP SCI 577	Introduction to Algorithms
COMP SCI/ DS 579 579	Virtual Reality
COMP SCI/ I SY E 635	Tools and Environments for Optimization
COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security
COMP SCI 679	Computer Game Technology

## RESIDENCE AND QUALITY OF WORK:

2.000 GPA in all COMP SCI courses and courses counting toward the major

2.000 GPA on 15 upper-level credits, taken in residence<sup>1</sup>

15 credits in COMP SCI, taken on campus

<sup>1</sup> COMP SCI courses numbered 400 and higher count as Upper-Level.

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## DISTINCTION IN THE MAJOR:

Code	Title	Credits
Distinction in the major is awarded automatically upon graduation to computer sciences majors who meet the qualifications below.		

## QUALIFICATIONS FOR DISTINCTION IN THE COMPUTER SCIENCES MAJOR

Code	Title	Credits
3.750 GPA in all COMP SCI courses and courses counting toward the major		
<i>OR</i>		
3.500 GPA in all COMP SCI courses and courses counting toward the major, plus completion of one of the following:		
-Completion of COMP SCI 691 & COMP SCI 692 for at least 6 credits, or		
-One COMP SCI course, at the 500 level or above, and counted towards the major, must be taken for honors credit and completed with a grade of "B" or better		

## HONORS IN THE MAJOR

Students may declare Honors in the Computer Sciences Major in consultation with the Computer Sciences undergraduate coordinator(s).

## HONORS IN THE COMPUTER SCIENCES MAJOR REQUIREMENTS

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all COMP SCI courses, and all courses accepted in the major
- Complete the following coursework, earning a B or better in each individual course:
  - One COMP SCI course, at the 500 level or above, taken for Honors credit, which counts toward the COMP SCI major
  - A two-semester Senior Honors Thesis in COMP SCI 681 Senior Honors Thesis and COMP SCI 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> The thesis proposal must be approved by both the thesis/project advisor and the department undergraduate coordinator before enrollment in COMP SCI 681. A final thesis or project must be filed with the Department of Computer Sciences before a final grade for COMP SCI 682 can be awarded.

1. Recognize and apply the core principles of Computing (abstractions and algorithms) to solve real-world problems.
2. Describe and apply the theoretical foundations of Computer Science (e.g., complexity analysis) in practical settings.
3. Demonstrate knowledge of key elements of computer systems, e.g., hardware, operating systems, networks.
4. Use fundamental and detailed knowledge, skills, and tools (e.g., specific algorithms, techniques methods, etc.) of computer science and develop the ability to acquire new knowledge, skills, and tools.
5. Design, implement, and evaluate software in multiple programming paradigms and languages.
6. Develop a substantial piece of software, and recognize the challenges of designing and developing software.
7. Exhibit technical (designing, implementing, and testing) and teamwork (communication, collaboration, and professional practice) skills in order to develop solutions as a computer science practitioner.
8. Can solve problems by applying a broad toolbox of knowledge and techniques.

## ADVISING AND CAREERS

### ADVISING

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the computer sciences major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/advisors>).

### CAREERS

Demand for those with a computer sciences education is exceptionally strong. According to figures from the U.S. Bureau of Labor Statistics, the vast majority of growth in STEM (science, technology, engineering, and math) occupations through 2020 will occur within computing fields.

Computer sciences majors are encouraged to begin working on their career exploration and preparation soon after arriving on campus to explore different career paths, participate in co-ops or summer internships, prepare for the job search and/or graduate school applications, and network with professionals in the field.

**Department of Computer Sciences:** the department hosts one major career fair (<https://www.cs.wisc.edu/connect/job-fair>) per year, in the fall, as well as other opportunities to connect with employers, such as technical talks and information sessions.

**Letters & Science Career Services:** L&S Career Services (<http://careers.ls.wisc.edu>) offers two major career fairs per year, assists with resume writing and interviewing skills, and offers individual career advising appointments for L&S students.

**Engineering Career Services (ECS):** ECS (<https://ecs.engr.wisc.edu/public>) offers two major career fairs per year, assists with resume writing and interviewing skills, and hosts workshops on the job search.

## LEARNING OUTCOMES

Upon graduation, students will be able to:

## PEOPLE

Professors A. Arpaci-Dusseau, R. Arpaci-Dusseau, Bach, Barford, Banerjee, Cai, Doan, Dyer, Ferris, Gleicher, Hill, Jha, Livny, Miller, Patel, Reps, Ron, Shavlik, Sohi, van Melkebeek, Wood, Wright, Zhu

Associate Professors Akella, Chawla, Liblit, Mutlu, Sankaralingam, Swift

Assistant Professors Albarghouthi, D'Antoni, Gupta, Koutris, Sifakis

Faculty Associates Dahl, Deppeler, Hasti, Legault, Lewis-Williams, Skrentny, Williams

## RESOURCES AND SCHOLARSHIPS

Visit [Scholarships@UW-Madison](mailto:Scholarships@UW-Madison) (<https://scholarships.wisc.edu/Scholarships>) to find UW–Madison scholarships and apply online.

Visit the scholarships page (<https://www.cs.wisc.edu/academics/scholarships>) on the Department of Computer Sciences website for a compendium of opportunities available to students studying computer sciences.

## COMPUTER SCIENCES, CERTIFICATE

Regardless of your major, you can **enhance your career** with a background in computer sciences. The computer sciences certificate is designed to **deepen and validate your computing savvy** for your future career prospects and/or graduate school. Compared to a major in computer sciences, the certificate requires fewer courses and offers more **flexibility in course selection**.

## HOW TO GET IN

All undergraduate, degree-seeking students are eligible to declare the computer sciences certificate, except for students majoring in computer sciences, and electrical or computer engineering.

Information on declaring the certificate is available on the Department of Computer Sciences advising pages (<http://www.cs.wisc.edu/advising>).

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

#### INTRODUCTORY PROGRAMMING PREREQUISITE

Code	Title	Credits
<b>Select one of the following courses:</b>		
COMP SCI 200	Programming I (recommended)	3
COMP SCI 301	Introduction to Data Programming	
COMP SCI 302	Introduction to Programming	
COMP SCI 310	Problem Solving Using Computers	
E C E 203	Signals, Information, and Computation	

### REQUIRED COURSEWORK

**Code**                      **Title**                                      **Credits**  
**Five courses, at least 12 credits, in computer sciences, including:**<sup>1</sup>                                      12-19

COMP SCI 300	Programming II (COMP SCI 367 may also be used if completed prior to Summer 2018.)	
At least two COMP SCI courses at the 400 level or higher, selected from the course list below.		
Two additional COMP SCI courses, at any level, selected from the course list below.		

<sup>1</sup> Courses taken on a pass/fail basis may not be used toward the certificate.

#### COURSE LIST

Code	Title	Credits
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	3
COMP SCI/E C E 252	Introduction to Computer Engineering	2
COMP SCI 270	Fundamentals of Human-Computer Interaction	3
COMP SCI 310	Problem Solving Using Computers	3
COMP SCI/E C E 352	Digital System Fundamentals	3
COMP SCI/E C E 354	Machine Organization and Programming	3
COMP SCI 369	Web Programming	3
COMP SCI 407	Foundations of Mobile Systems and Applications	3
COMP SCI 412	Introduction to Numerical Methods	3
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	3
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	3
COMP SCI/STAT 471	Introduction to Computational Statistics	3
COMP SCI/MATH/ STAT 475	Introduction to Combinatorics	3
COMP SCI/E C E 506	Software Engineering	3
COMP SCI/ MATH 513	Numerical Linear Algebra	3
COMP SCI/ MATH 514	Numerical Analysis	3
COMP SCI 520	Introduction to Theory of Computing	3
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	3
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	3
COMP SCI/ I SY E 526	Advanced Linear Programming	3-4
COMP SCI/E C E/ M E 532	Theory and Applications of Pattern Recognition	3
COMP SCI/E C E 533	Image Processing	3
COMP SCI 534	Computational Photography	3

COMP SCI 536	Introduction to Programming Languages and Compilers	3
COMP SCI 537	Introduction to Operating Systems	4
COMP SCI 538	Introduction to the Theory and Design of Programming Languages	3
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Network and Fuzzy Systems	3
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI 545	Natural Language and Computing	3
COMP SCI 547	Computer Systems Modeling Fundamentals	3
COMP SCI/E C E 552	Introduction to Computer Architecture	3
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	3
COMP SCI 559	Computer Graphics	3
COMP SCI 564	Database Management Systems: Design and Implementation	4
COMP SCI/B M I 567	Medical Image Analysis	3
COMP SCI 570	Introduction to Human-Computer Interaction	4
COMP SCI/B M I 576	Introduction to Bioinformatics	3
COMP SCI 577	Introduction to Algorithms	4
COMP SCI/ DS 579 579	Virtual Reality	3
COMP SCI/ I SY E 635	Tools and Environments for Optimization	3
COMP SCI 640	Introduction to Computer Networks	3
COMP SCI 642	Introduction to Information Security	3
COMP SCI 679	Computer Game Technology	3

## RESIDENCE AND QUALITY OF WORK

Code	Title	Credits
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A 2.000 GPA must be earned on all courses meeting Certificate requirements.

Students may complete no more than two courses toward the certificate post-baccalaureate as a University Special student. Courses taken post-baccalaureate as a University Special student must be completed within three regular academic semesters from the time of degree award (excluding summer) in order to be used toward the certificate.

For students who complete the certificate while enrolled in an undergraduate degree-seeking program, at least 7 credits must be completed in residence.

For students who complete the certificate post-baccalaureate as a University Special student, at least 12 credits must be completed in residence.

## ADVISING AND CAREERS

### ADVISING

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the Computer Students

major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/advisors>).

## PEOPLE

Professors A. Arpaci-Dusseau, R. Arpaci-Dusseau, Bach, Barford, Banerjee, Cai, Doan, Dyer, Ferris, Gleicher, Hill, Jha, Livny, Miller, Patel, Reps, Ron, Shavlik, Sohi, van Melkebeek, Wood, Wright, Zhu

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Assistant Professors Albarghouthi, D'Antoni, Gupta, Koutris, Sifakis

Faculty Associates Dahl, Deppeler, Hasti, Legault, Lewis-Williams, Skrentny, Williams

## ECONOMICS

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environment. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

The analytical method of economics recognizes that various choices are open to a society in solving its economic problems. Students are often attracted to economics as a discipline precisely because they want to understand the decisions of people and businesses and to better understand and evaluate economic policy. To begin to approach these issues as an economist requires an understanding of economic theory, empirical methodology, and an understanding of the institutional details and advanced practice gained from intensive study of specific subfields of economics. Consequently, the undergraduate economics major is organized around a progression of courses that first provides a broad introduction to economics, then develops the theoretical tools that provide the foundation of modern economic thought, and finishes with advanced courses designed to provide greater in-depth knowledge of specific fields (such as labor markets, industrial organization, international economics, public finance, banking and finance, macroeconomics, microeconomics, and econometrics).

An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. This skill is valued by many employers. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## DEGREES/MAJORS/CERTIFICATES

- Economics, B.A. (p. 567)
- Economics, B.S. (p. 572)

## PEOPLE

Professors Blank, Corbae, Deneckere, Durlauf, Engel, Hansen, Hendricks, Kennan, Porter, Rostek, Sandholm, Scholz, Seshadri, Smith, Sorensen, Taber, Walker, West, Williams, Wolfe, Wright

Associate Professors Fu, Lentz, Penta, Quint, Weretka, Wiswall

Assistant Professors Atalay, Bilir, Freyberger, Gregory, Magnolfi, Mommaerts, Shi

Affiliated Faculty Chang, Chinn, Chung, Montgomery, Sarada, Schechter, Smeeding, Wallace

## ECONOMICS, B.A.

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environment. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

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An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. This skill is valued by many employers. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## HOW TO GET IN

### ADMISSION TO THE MAJOR

1. Completion of two (2) Econ courses on the University of Wisconsin–Madison campus with a 2.000 GPA.

2. A 2.000 GPA in all Econ courses and other major coursework taken at UW–Madison
3. Completion of one (1) calculus course
  - For Option B, MATH 221 Calculus and Analytic Geometry 1 or higher is required

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The department offers two major options. Students must declare one (and not more than one) of these options and complete all requirements including Residence and Quality of Work standards. Options are:

**Option A: Economics** provides a well-rounded major in economics that is valuable for employment following graduation, or subsequent graduate work in business, law, public policy, and related disciplines.

**Option B: Economics—Mathematical Emphasis** provides students with the mathematical and statistical background needed for in-depth study of the analytical aspects of economics. Its requirements are designed to prepare students for graduate study in economics and related fields, or for careers as professional economists in business or government.

### OPTION A: ECONOMICS

#### Math and Statistics

Code	Title	Credits
<b>Calculus (select one):</b>		
MATH 221	Calculus and Analytic Geometry 1	
MATH 211	Calculus	
MATH 213	Calculus and Introduction to Differential Equations	
MATH 222	Calculus and Analytic Geometry 2	

MATH 234	Calculus—Functions of Several Variables
MATH 275	Topics in Calculus I
MATH 276	Topics in Calculus II
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II (Or Two courses from:)

#### Statistics (select one):

ECON 310	Statistics: Measurement in Economics
STAT 302	Accelerated Introduction to Statistical Methods
GEN BUS 303	Business Statistics
ECON 410	Introductory Econometrics
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I
MATH/STAT 431	Introduction to the Theory of Probability
STAT 224	Introductory Statistics for Engineers
STAT 301	Introduction to Statistical Methods
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
STAT 324	Introductory Applied Statistics for Engineers

#### 30 credits of ECON, from:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (Select one):</b>		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Theory (Select one):</b>		6-8
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ)	

#### Two Advanced ECON courses: <sup>1</sup>

ECON 410	Introductory Econometrics	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	



ECON 460	Economic Forecasting
ECON 464	International Trade and Finance
ECON 467	International Industrial Organizations
ECON 468	Industrial Organization and Imperfect Competition
ECON 475	Economics of Growth
ECON 503	Markets with Frictions
ECON 508	Wealth and Income
ECON 521	Game Theory and Economic Analysis
ECON 522	Law and Economics
ECON 525	Economics of Education: Theory and Measurement
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care
ECON 580	Honors Tutorial in Research Project Design
ECON 623	Population Economics
ECON 666	Issues in International Finance

**Additional credits to achieve 30 in the major:**

Select any advanced course (above) or one of these applied economics courses:

ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON/ FINANCE 320	Investment Theory
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 364	Survey of International Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis
ECON 440	Urban and Regional Economics
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON/ HISTORY 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa

ECON 502	Economics of Transportation
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/A A E 567	Public Finance in Less Developed Countries
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Advanced ECON courses must be taken in residence, and not through transfer or a UW–Madison Study Abroad program.

**OPTION B: ECONOMICS WITH A MATH EMPHASIS****Mathematics & Statistics**

Code	Title	Credits
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**Calculus**

*Option 1—four calculus courses:*

MATH 221	Calculus and Analytic Geometry 1
MATH 222	Calculus and Analytic Geometry 2
MATH 234	Calculus—Functions of Several Variables
MATH 320	Linear Algebra and Differential Equations
or MATH 340	Elementary Matrix and Linear Algebra

*Option 2—Honors Calculus (3 courses):*

MATH 275	Topics in Calculus I
MATH 276	Topics in Calculus II
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra

**Statistics**

ECON 310	Statistics: Measurement in Economics
STAT 302	Accelerated Introduction to Statistical Methods
ECON 410	Introductory Econometrics
STAT 224	Introductory Statistics for Engineers
STAT 301	Introduction to Statistical Methods
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
STAT/MATH 431	Introduction to the Theory of Probability
STAT 324	Introductory Applied Statistics for Engineers

**30 credits of ECON, from:**

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (Select one):</b>		<b>4-8</b>

ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics- Accelerated Treatment	
<b>Intermediate Theory (Select one):</b>		6-8
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ )	
<b>Introductory Econometrics</b>		
ECON 410	Introductory Econometrics	
<b>Three Advanced ECON courses:</b> <sup>1</sup>		6-8
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 464	International Trade and Finance	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON 503	Markets with Frictions	
ECON 508	Wealth and Income	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	
ECON 525	Economics of Education: Theory and Measurement	
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	
ECON 580	Honors Tutorial in Research Project Design	
ECON 623	Population Economics	
ECON 666	Issues in International Finance	
<b>Additional credits to achieve 30 in the major:</b>		
<i>Select any Advanced course (above) or one of these Applied Economics courses:</i>		
ECON/ FINANCE 300	Introduction to Finance	
ECON/ HIST SCI 305	Development of Economic Thought	

ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	
ECON/ FINANCE 320	Investment Theory	
ECON 330	Money and Banking	
ECON/A A E/ ENVIR ST 343	Environmental Economics	
ECON 364	Survey of International Economics	
ECON 390	Contemporary Economic Issues	
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	
ECON/A A E 421	Economic Decision Analysis	
ECON 440	Urban and Regional Economics	
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	
ECON/A A E/ INTL BUS 462	Latin American Economic Development	
ECON/ HISTORY 465	The American Economy to 1865	
ECON/ HISTORY 466	The American Economy Since 1865	
ECON/A A E 473	Economic Growth and Development in Southeast Asia	
ECON/A A E 474	Economic Problems of Developing Areas	
ECON/A A E 477	Agricultural and Economic Development in Africa	
ECON 502	Economics of Transportation	
ECON/ PHILOS 524	Philosophy and Economics	
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	
ECON/A A E 567	Public Finance in Less Developed Countries	
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy	
ECON/SOC 663	Population and Society	
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Two Advanced ECON courses must be taken on campus (in residence, not via study abroad)

## RESIDENCE & QUALITY OF WORK

2.000 GPA in all major and ECON courses

2.000 GPA on 15 upper-level major courses taken in residence

15 credits in ECON, taken on the UW–Madison campus

## HONORS IN THE ECONOMICS MAJOR

Students may declare Honors in the Economics Major in consultation with the Economics undergraduate advisor(s).

## HONORS IN THE ECONOMICS MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Economics students must satisfy both the requirements for the Economics–Mathematical Emphasis Option (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ECON courses, and all courses accepted in the major
- Complete the following courses, taken for Honors, with grades of B or better in each:

Code	Title	Credits
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment	
ECON 580	Honors Tutorial in Research Project Design	
<b>Select one of the following capstone experiences:</b> <sup>1</sup>		
ECON 581	Honors Thesis	
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis (Take for a total of 6 credits)	

<sup>1</sup> Students may be allowed to substitute the following for the thesis capstone, given the explicit permission from their Economics Advisor: A course in mathematical analysis such as MATH 521 and, with instructor approval, an advanced ECON course with a grade of B or higher.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will understand the fundamental concepts of economics, and how those concepts apply to real world issues.
2. Students will be able to construct and evaluate economic models, their assumptions and conclusions.

3. Students will acquire a diverse set of skills and strategies in mathematical reasoning/statistical and computational techniques/ deductive logic/problem solving.
4. Students will use mathematics/computational/statistical techniques to analyze real world situations and policies.
5. Students will use economic analysis to critically evaluate public policy proposals.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Academic advising (<http://www.econ.wisc.edu/undergraduate-academic-advising.htm>), along with general information about the undergraduate major and coursework, is available in Room 7238 of the Social Science Building. Find us on the campus map ([http://www.map.wisc.edu/?initObj=bdg\\_SocSc&z=41.33&x=-0.158401&y=-0.09157](http://www.map.wisc.edu/?initObj=bdg_SocSc&z=41.33&x=-0.158401&y=-0.09157)).  
Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu)  
Phone: 608-262-6925

### ECONOMICS CAREER DEVELOPMENT OFFICE

The Economics Career Development Office (<http://www.econ.wisc.edu/career-advising.htm>) (ECDO) provides career development services and resources to undergraduate students who are either declared economics majors or are considering majoring in economics and would like career information. To set up an appointment or to ask a career/internship question please email [econcareers@ssc.wisc.edu](mailto:econcareers@ssc.wisc.edu)

## PREPARATION FOR PH.D. PROGRAMS IN ECONOMICS

Students interested in pursuing graduate study should pursue Option B (mathematical emphasis) and augment the standard curriculum with higher-level mathematics and statistics courses. These may include:

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 421	The Theory of Single Variable Calculus	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/ISYE/ OTM/STAT 632	Introduction to Stochastic Processes	

It is important to consult early in the second year with the undergraduate advisor and/or the faculty member that directs the undergraduate program to design a plan of coursework.

### DIRECTED STUDY

Directed Study (ECON 698, ECON 699) enables advanced students to pursue economic topics not covered in the regular course offerings. A

student interested in Directed Study should prepare a research proposal and/or reading list; specific course requirements are arranged with an instructor who agrees to supervise the directed study project. Enrollment requires the consent of the instructor; a GPA of 3.00 or above in ECON; completion of the Intermediate economic theory courses (ECON 301 & ECON 302); at least one Advanced ECON course; and completion of the department's Directed Study form, available in 7238 Social Science.

## INTERNSHIPS

Students can earn 1 credit for approved internships appropriate to the study of economics under course ECON 228. Students must enroll for ECON 228 in the same semester/session in which the internship is granted. Students should work a minimum of 100 hours per term. Prerequisites are declaration in the major economics major; a major GPA of 2.200 or higher; completion of at least four ECON courses at UW–Madison; completion of at least one Intermediate Theory course (ECON 301 & ECON 302); a completed application; and departmental approval.

## PEOPLE

Professors Blank, Corbae, Deneckere, Durlauf, Engel, Hansen, Hendricks, Kennan, Porter, Rostek, Sandholm, Scholz, Seshadri, Smith, Sorensen, Taber, Walker, West, Williams, Wolfe, Wright

Associate Professors Fu, Lentz, Penta, Quint, Weretka, Wiswall

Assistant Professors Atalay, Bilir, Freyberger, Gregory, Magnolfi, Mommaerts, Shi

Affiliated Faculty Chang, Chinn, Chung, Montgomery, Sarada, Schechter, Smeeding, Wallace

## ECONOMICS, B.S.

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environment. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

The analytical method of economics recognizes that various choices are open to a society in solving its economic problems. Students are often attracted to economics as a discipline precisely because they want to understand the decisions of people and businesses and to better understand and evaluate economic policy. To begin to approach these issues as an economist requires an understanding of economic theory, empirical methodology, and an understanding of the institutional details and advanced practice gained from intensive study of specific subfields of economics. Consequently, the undergraduate economics major is organized around a progression of courses that first provides a broad introduction to economics, then develops the theoretical tools that provide the foundation of modern economic thought, and finishes with advanced courses designed to provide greater in-depth knowledge of specific fields (such as labor markets, industrial

organization, international economics, public finance, banking and finance, macroeconomics, microeconomics, and econometrics).

An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. This skill is valued by many employers. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## HOW TO GET IN

### ADMISSION TO THE MAJOR

1. Completion of two (2) Econ courses on the University of Wisconsin–Madison campus with a 2.000 GPA.
2. A 2.000 GPA in all Econ courses and other major coursework taken at UW–Madison
3. Completion of one (1) calculus course
  - For Option B, MATH 221 Calculus and Analytic Geometry 1 or higher is required

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

**Foreign Language** Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW-Madison

2.000 in intermediate/advanced coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

The department offers two major options. Students must declare one (and not more than one) of these options and complete all requirements including Residence and Quality of Work standards. Options are:

**Option A: Economics** provides a well-rounded major in economics that is valuable for employment following graduation, or subsequent graduate work in business, law, public policy, and related disciplines.

**Option B: Economics—Mathematical Emphasis** provides students with the mathematical and statistical background needed

for in-depth study of the analytical aspects of economics. Its requirements are designed to prepare students for graduate study in economics and related fields, or for careers as professional economists in business or government.

### OPTION A: ECONOMICS

#### Math and Statistics

Code	Title	Credits
<b>Calculus (select one):</b>		
MATH 221	Calculus and Analytic Geometry 1	
MATH 211	Calculus	
MATH 213	Calculus and Introduction to Differential Equations	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	Calculus—Functions of Several Variables	
MATH 275	Topics in Calculus I	
MATH 276	Topics in Calculus II	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II (Or Two courses from:)	

#### Statistics (select one):

ECON 310	Statistics: Measurement in Economics	
STAT 302	Accelerated Introduction to Statistical Methods	
GEN BUS 303	Business Statistics	
ECON 410	Introductory Econometrics	
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	

#### 30 credits of ECON, from:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (Select one):</b>		
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	4-8
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Theory (Select one):</b>		
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	6-8
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ)	

**Two Advanced ECON courses:**<sup>1</sup> 6-8

ECON 410	Introductory Econometrics
ECON 435	The Financial System
ECON 441	Analytical Public Finance
ECON 442	Macroeconomic Policy
ECON 448	Human Resources and Economic Growth
ECON 450	Wages and the Labor Market
ECON 451	The Economic Approach to Human Behavior
ECON 455	Behavioral Economics
ECON 458	Industrial Structure and Competitive Strategy
ECON 460	Economic Forecasting
ECON 464	International Trade and Finance
ECON 467	International Industrial Organizations
ECON 468	Industrial Organization and Imperfect Competition
ECON 475	Economics of Growth
ECON 503	Markets with Frictions
ECON 508	Wealth and Income
ECON 521	Game Theory and Economic Analysis
ECON 522	Law and Economics
ECON 525	Economics of Education: Theory and Measurement
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care
ECON 580	Honors Tutorial in Research Project Design
ECON 623	Population Economics
ECON 666	Issues in International Finance

**Additional credits to achieve 30 in the major:**

Select any advanced course (above) or one of these applied economics courses:

ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON/ FINANCE 320	Investment Theory
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 364	Survey of International Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis
ECON 440	Urban and Regional Economics

ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON/ HISTORY 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa
ECON 502	Economics of Transportation
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/A A E 567	Public Finance in Less Developed Countries
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Advanced ECON courses must be taken in residence, and not through transfer or a UW–Madison Study Abroad program.

## OPTION B: ECONOMICS WITH A MATH EMPHASIS

### Mathematics & Statistics

Code	Title	Credits
<b>Calculus</b>		
<i>Option 1—four calculus courses:</i>		
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	Calculus—Functions of Several Variables	
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
<i>Option 2—Honors Calculus (3 courses):</i>		
MATH 275	Topics in Calculus I	
MATH 276	Topics in Calculus II	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<b>Statistics</b>		
ECON 310	Statistics: Measurement in Economics	
STAT 302	Accelerated Introduction to Statistical Methods	
ECON 410	Introductory Econometrics	

STAT 224	Introductory Statistics for Engineers
STAT 301	Introduction to Statistical Methods
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
STAT/MATH 431	Introduction to the Theory of Probability
STAT 324	Introductory Applied Statistics for Engineers

**30 credits of ECON, from:**

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (Select one):</b>		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Theory (Select one):</b>		6-8
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ)	
<b>Introductory Econometrics</b>		
ECON 410	Introductory Econometrics	
<b>Three Advanced ECON courses:<sup>1</sup></b>		6-8
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 464	International Trade and Finance	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON 503	Markets with Frictions	
ECON 508	Wealth and Income	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	
ECON 525	Economics of Education: Theory and Measurement	

ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care
ECON 580	Honors Tutorial in Research Project Design
ECON 623	Population Economics
ECON 666	Issues in International Finance
<b>Additional credits to achieve 30 in the major:</b>	
<i>Select any Advanced course (above) or one of these Applied Economics courses:</i>	
ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON/ FINANCE 320	Investment Theory
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 364	Survey of International Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis
ECON 440	Urban and Regional Economics
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON/ HISTORY 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa
ECON 502	Economics of Transportation
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/A A E 567	Public Finance in Less Developed Countries
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics

**Total Credits**

30

<sup>1</sup> Two Advanced ECON courses must be taken on campus (in residence, not via study abroad)

**RESIDENCE & QUALITY OF WORK**

2.000 GPA in all major and ECON courses

2.000 GPA on 15 upper-level major courses taken in residence

15 credits in ECON, taken on the UW–Madison campus

**HONORS IN THE ECONOMICS MAJOR**

Students may declare Honors in the Economics Major in consultation with the Economics undergraduate advisor(s).

**HONORS IN THE ECONOMICS MAJOR REQUIREMENTS**

To earn the B.A. or B.S. with Honors in the Major in Economics students must satisfy both the requirements for the Economics–Mathematical Emphasis Option (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ECON courses, and all courses accepted in the major
- Complete the following courses, taken for Honors, with grades of B or better in each:

Code	Title	Credits
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment	
ECON 580	Honors Tutorial in Research Project Design	

Select one of the following capstone experiences: <sup>1</sup>

ECON 581	Honors Thesis
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis (Take for a total of 6 credits)

<sup>1</sup> Students may be allowed to substitute the following for the thesis capstone, given the explicit permission from their Economics Advisor: A course in mathematical analysis such as MATH 521 and, with instructor approval, an advanced ECON course with a grade of B or higher.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

1. Students will understand the fundamental concepts of economics, and how those concepts apply to real world issues.
2. Students will be able to construct and evaluate economic models, their assumptions and conclusions.
3. Students will acquire a diverse set of skills and strategies in mathematical reasoning/statistical and computational techniques/deductive logic/problem solving.
4. Students will use mathematics/computational/statistical techniques to analyze real world situations and policies.
5. Students will use economic analysis to critically evaluate public policy proposals.

**ADVISING AND CAREERS****ACADEMIC ADVISING**

Academic advising (<http://www.econ.wisc.edu/undergraduate-academic-advising.htm>), along with general information about the undergraduate major and coursework, is available in Room 7238 of the Social Science Building. Find us on the campus map ([http://www.map.wisc.edu/?initObj=bdg\\_SocSc&z=41.33&x=-0.158401&y=-0.09157](http://www.map.wisc.edu/?initObj=bdg_SocSc&z=41.33&x=-0.158401&y=-0.09157)).  
Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu)  
Phone: 608-262-6925

**ECONOMICS CAREER DEVELOPMENT OFFICE**

The Economics Career Development Office (<http://www.econ.wisc.edu/career-advising.htm>) (ECDO) provides career development services and resources to undergraduate students who are either declared economics majors or are considering majoring in economics and would like career information. To set up an appointment or to ask a career/internship question please email [econcareers@ssc.wisc.edu](mailto:econcareers@ssc.wisc.edu)

**PREPARATION FOR PH.D. PROGRAMS IN ECONOMICS**

Students interested in pursuing graduate study should pursue Option B (mathematical emphasis) and augment the standard curriculum with higher-level mathematics and statistics courses. These may include:



Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 421	The Theory of Single Variable Calculus	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	

It is important to consult early in the second year with the undergraduate advisor and/or the faculty member that directs the undergraduate program to design a plan of coursework.

## DIRECTED STUDY

Directed Study (ECON 698, ECON 699) enables advanced students to pursue economic topics not covered in the regular course offerings. A student interested in Directed Study should prepare a research proposal and/or reading list; specific course requirements are arranged with an instructor who agrees to supervise the directed study project. Enrollment requires the consent of the instructor; a GPA of 3.00 or above in ECON; completion of the Intermediate economic theory courses (ECON 301 & ECON 302); at least one Advanced ECON course; and completion of the department's Directed Study form, available in 7238 Social Science.

## INTERNSHIPS

Students can earn 1 credit for approved internships appropriate to the study of economics under course ECON 228. Students must enroll for ECON 228 in the same semester/session in which the internship is granted. Students should work a minimum of 100 hours per term. Prerequisites are declaration in the major economics major; a major GPA of 2.200 or higher; completion of at least four ECON courses at UW–Madison; completion of at least one Intermediate Theory course (ECON 301 & ECON 302); a completed application; and departmental approval.

## PEOPLE

Professors Blank, Corbae, Deneckere, Durlauf, Engel, Hansen, Hendricks, Kennan, Porter, Rostek, Sandholm, Scholz, Seshadri, Smith, Sorensen, Taber, Walker, West, Williams, Wolfe, Wright

Associate Professors Fu, Lentz, Penta, Quint, Weretka, Wiswall

Assistant Professors Atalay, Bilir, Freyberger, Gregory, Magnolfi, Mommaerts, Shi

Affiliated Faculty Chang, Chinn, Chung, Montgomery, Sarada, Schechter, Smeeding, Wallace

## ENGLISH

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build

strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

English majors choose one of three tracks: the general major (which emphasizes literary and cultural studies), creative writing, or language and linguistics. All majors take a core curriculum that introduces them to a range of approaches to literature and language, including courses in literary and cultural history. Students who opt for the general major build on core courses with intermediate and advanced classes that focus on texts from across a range of periods and places, investigating literature and culture using multiple methods and approaches. Students pursuing the emphasis on creative writing take the core curriculum with a sequence of creative writing workshops. Students wishing to emphasize language and linguistics choose options in grammar, the history of the English language, phonology, and language acquisition.

## TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## DEGREES/MAJORS/CERTIFICATES

- English, B.A. (p. 578)
- English, B.S. (p. 590)
- Health and the Humanities, Certificate (p. 602)
- Teaching English to Speakers of Other Languages, Certificate (p. 603)

## PEOPLE

## FACULTY

Professors Auerbach, Barry, Begam, Bernard-Donals, Bow, Britland, Castronovo, Dharwadker, Foys, Friedman, Guyer, Hill, Johnson, Keller, Kelley, Kercheval, Mitchell, Olaniyan, Ortiz-Robles, Purnell, Raimy, Sherrard-Johnson, Steele, Wanner, M. Young, R. Young, Yu, Zimmerman

Associate Professors Allewaert, Bearden, Cooper, Olson, Samuels, Trotter, Valenza, Vieira

Assistant Professors Calhoun, Cho, Druschke, Evans, Fawaz, Vareschi, Zweck

## RESOURCES AND SCHOLARSHIPS

### WRITING CENTER

The Writing Center (<http://www.wisc.edu/writing>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<http://www.wisc.edu/writing>).

### ENGLISH, B.A.

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

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### TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## HOW TO GET IN

Information about the English major can be found on the department website (<http://www.english.wisc.edu/undergraduate>) and also in the department office, 7195 Helen C. White Hall. Students interested in declaring the major should schedule an appointment (<https://english.wisc.edu/undergraduate-advising.htm>) with Dr. Karen Redfield, the Undergraduate Advisor. Students must complete 6 credits of introductory literature before they declare, but are welcome to meet with the advisor at any time. These 6 credits must carry the "L" breadth designation, regardless of the subject in which they are taken.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF ARTS DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall  
30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Completion of the major requires a minimum of 30 credits in intermediate- or advanced-level English courses numbered 204 and higher, with the exception of ENGL 201 Intermediate Composition, ENGL 207 Introduction to Creative Writing: Fiction and Poetry Workshop and ENGL 236 Bascom Course.

Code	Title	Credits
Select one of the following:		30
	English (Literature)	
	English Language and Linguistics	
	Creative Writing	
Total Credits		30

The major requirements are distributed as follows:

## ENGLISH (LITERATURE)

Code	Title	Credits
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
One course in American Literature		3
One pre-1800 course (may be Shakespeare)		3
One pre-1800 course (CANNOT be Shakespeare)		3
One course in English Language or Composition & Rhetoric		3
ENGL 245	Seminar in the Major	3
Additional ENGL elective credits to achieve 30 credit minimum		9
Total Credits		30

## ENGLISH (LITERATURE) COURSES

### American Literature Courses

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 458	Major American Writer or Writers	3

ENGL 459	Three American Novelists	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 474	Topic in Contemporary Literature	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

### Pre-1800 Literature (may be Shakespeare)

Code	Title	Credits
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MIEVEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MIEVEVAL 424	Medieval Drama	3
ENGL/ MIEVEVAL 425	Medieval Romance	3
ENGL/ MIEVEVAL 426	Chaucers Courtly Poetry	3
ENGL/ MIEVEVAL 427	Chaucer's Canterbury Tales	3
ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 431	Early Works of Shakespeare	3
ENGL 432	Later Works of Shakespeare	3
ENGL 433	Spenser	3
ENGL/RELIG ST 434	Milton	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL/ MIEVEVAL 520	Old English	3

ENGL/ MIEVEVAL 521	Advanced Old English Literature	3
ENGL 546	Topic in Travel Writing before 1800	3

### Pre-1800 Literature (CANNOT be Shakespeare)

Code	Title	Credits
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MIEVEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MIEVEVAL 424	Medieval Drama	3
ENGL/ MIEVEVAL 425	Medieval Romance	3
ENGL/ MIEVEVAL 426	Chaucers Courtly Poetry	3
ENGL/ MIEVEVAL 427	Chaucer's Canterbury Tales	3
ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 433	Spenser	3
ENGL/RELIG ST 434	Milton	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL/ MIEVEVAL 520	Old English	3
ENGL/ MIEVEVAL 521	Advanced Old English Literature	3
ENGL 546	Topic in Travel Writing before 1800	3

### English Language or Composition & Rhetoric

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 214	The English Language	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 400	Advanced Composition	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL 500	Writing in Workplaces	3
ENGL 501	Writing Internship	3
ENGL 505	Topics in Composition and Rhetoric	3

**Additional ENGL Elective Credits**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 214	The English Language	3
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 224	Introduction to Poetry	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 271	Writing with New Media	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 279	Topics in English, Study Abroad - Literature	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 319	Language, Race, and Identity	3
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL 340	Romantic Literature and Culture	3
ENGL 341	Romantic Poetry	3
ENGL 344	Victorian Literature and Culture	3
ENGL 345	Nineteenth-Century Novel	3
ENGL 346	Victorian Poetry	3
ENGL 351	Modernist Novel	3
ENGL 352	Modernist Poetry	3
ENGL 353	British Literature since 1900	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 373	Contemporary Poetry	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 375	Literatures of Migration and Diaspora	3
ENGL 379	Postcolonial and World Literature	3
ENGL 381	Sophomore Honors: Research Methods in English	3
ENGL 400	Advanced Composition	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 411	Creative Writing: Special Topics Workshop	3
ENGL 413	English Words: Grammar, Culture, Mind	3
ENGL 414	Global Spread of English	3
ENGL 415	Introduction to TESOL Methods	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL/GEN&WS 419	Gender and Language	3
ENGL 420	Topics in English Language and Linguistics	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MEDIEVAL 424	Medieval Drama	3
ENGL/ MEDIEVAL 425	Medieval Romance	3
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 431	Early Works of Shakespeare	3
ENGL 432	Later Works of Shakespeare	3
ENGL 433	Spenser	3

ENGL/RELIG ST 434	Milton	3	ENGL/ MEDIEVAL 520	Old English	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3	ENGL/ MEDIEVAL 521	Advanced Old English Literature	3
ENGL 439	Topic in Early American Literature and Culture	3	ENGL/ MEDIEVAL 522	Middle English Language	3
ENGL 443	Outstanding Figure(s) in Literature since 1800	3	ENGL 531	Humans, Non-Humans, Post-Humans	3
ENGL 444	Topic in Romantic or Victorian Literature and Culture	3	ENGL 532	Literature and Animal Studies	3
ENGL 446	Romantic Autobiographies	3	ENGL 533	Topic in Literature and the Environment	3
ENGL 453	Topic in British Literature and Culture since 1900	3	ENGL/THEATRE 534	American Drama and Theatre to 1900	3
ENGL 454	James Joyce	3	ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3	ENGL 538	Women's Traditions in the Novel	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3	ENGL/JEWISH 539	Jewish Literatures in Diaspora	3
ENGL 457	Topic in American Literature and Culture since 1900	3	ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 458	Major American Writer or Writers	3	ENGL 544	Modern Discourses of Disability	3
ENGL 459	Three American Novelists	3	ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3	ENGL 546	Topic in Travel Writing before 1800	3
ENGL/ ASIAN AM 462	Topic in Asian American Literature	3	ENGL 548	Topic in Literature and Politics	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3	ENGL 559	Topic in Literary or Cultural Theory	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3	ENGL 560	Narrative Theory	3
ENGL/ ASIAN AM 465	Asian American Poetry	3	ENGL 561	Modern Critical Theories	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3	ENGL 562	Topic in Poetry and Poetics	3
ENGL 469	Interdisciplinary Studies in the Arts	1-4	ENGL 571	Remix, Mashup, and Digital Design	3
ENGL 473	Topic in Postcolonial or World Literature	3	ENGL 572	Smart Media & Critical Information Design	3
ENGL 474	Topic in Contemporary Literature	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
ENGL/THEATRE 477	Diaspora and Theatre	3	ENGL/THEATRE 576	Survey: Theories of Drama	3
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
ENGL 479	Contemporary World Theatre in English	3	ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL 481	Junior Honors Seminar in the Major	3	ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 482	Honors Seminar	3	ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 500	Writing in Workplaces	3	ENGL 699	Directed Study	1-3
ENGL 501	Writing Internship	3	<b>ENGLISH LANGUAGE AND LINGUISTICS</b>		
ENGL 505	Topics in Composition and Rhetoric	3	NOTE: This is a track and will not appear on the transcript.		
ENGL 508	Creative Writing: Advanced Fiction Workshop	3	An optional emphasis on English language and linguistics is available to the interested L&S undergraduate who wishes to combine a background in literature with a concentration of courses in the history and structure of the English language. The major requirements are distributed as follows:		
ENGL 509	Creative Writing: Advanced Poetry Workshop	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ENGL 514	English Syntax	3	ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 515	Techniques and Materials for TESOL	3			
ENGL 516	English Grammar in Use	3			

ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
One Course in American Literature		3
ENGL 245	Seminar in the Major	3
ENGL 214	The English Language	3
ENGL 314	Structure of English	3
ENGL 514	English Syntax	3
or ENGL 516	English Grammar in Use	
ENGL 315	English Phonology	3
Additional ENGL elective credits to achieve 30 credit minimum		6
<b>Total Credits</b>		<b>30</b>

## ENGLISH LANGUAGE AND LINGUISTICS COURSES

### American Literature Courses

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 458	Major American Writer or Writers	3
ENGL 459	Three American Novelists	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3

ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 474	Topic in Contemporary Literature	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

### Additional ENGL Elective Credits

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 224	Introduction to Poetry	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 271	Writing with New Media	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 279	Topics in English, Study Abroad - Literature	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 319	Language, Race, and Identity	3
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL 340	Romantic Literature and Culture	3
ENGL 341	Romantic Poetry	3

ENGL 344	Victorian Literature and Culture	3	ENGL/ MEDIEVAL 425	Medieval Romance	3
ENGL 345	Nineteenth-Century Novel	3	ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3
ENGL 346	Victorian Poetry	3	ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
ENGL 351	Modernist Novel	3	ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 352	Modernist Poetry	3	ENGL 431	Early Works of Shakespeare	3
ENGL 353	British Literature since 1900	3	ENGL 432	Later Works of Shakespeare	3
ENGL 355	Colonial and Early Romantic American Literature	3	ENGL 433	Spenser	3
ENGL 356	Nineteenth-Century American Fiction	3	ENGL/RELIG ST 434	Milton	3
ENGL 357	Major American Poets	3	ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 358	Literature of the American Renaissance	3	ENGL 439	Topic in Early American Literature and Culture	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3	ENGL 443	Outstanding Figure(s) in Literature since 1800	3
ENGL 361	Modern and Contemporary American Literature	3	ENGL 444	Topic in Romantic or Victorian Literature and Culture	3
ENGL 362	American Fiction since 1900	3	ENGL 446	Romantic Autobiographies	3
ENGL 363	The American Short Story	3	ENGL 453	Topic in British Literature and Culture since 1900	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3	ENGL 454	James Joyce	3
ENGL 373	Contemporary Poetry	3	ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 374	African and African Diaspora Literature and Culture	3	ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 375	Literatures of Migration and Diaspora	3	ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 379	Postcolonial and World Literature	3	ENGL 458	Major American Writer or Writers	3
ENGL 381	Sophomore Honors: Research Methods in English	3	ENGL 459	Three American Novelists	3
ENGL 400	Advanced Composition	3	ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3	ENGL/ ASIAN AM 462	Topic in Asian American Literature	3
ENGL 407	Creative Writing: Nonfiction Workshop	3	ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL 408	Creative Writing: Fiction Workshop	3	ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL 409	Creative Writing: Poetry Workshop	3	ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL 410	Creative Writing: Playwriting Workshop	3	ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 411	Creative Writing: Special Topics Workshop	3	ENGL 469	Interdisciplinary Studies in the Arts	1-4
ENGL 413	English Words: Grammar, Culture, Mind	3	ENGL 473	Topic in Postcolonial or World Literature	3
ENGL 414	Global Spread of English	3	ENGL 474	Topic in Contemporary Literature	3
ENGL 415	Introduction to TESOL Methods	3	ENGL/THEATRE 477	Diaspora and Theatre	3
ENGL 416	English in Society	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ENGL 417	History of the English Language	3	ENGL 479	Contemporary World Theatre in English	3
ENGL/GEN&WS 419	Gender and Language	3	ENGL 481	Junior Honors Seminar in the Major	3
ENGL 420	Topics in English Language and Linguistics	3	ENGL 482	Honors Seminar	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3			
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3			
ENGL/ MEDIEVAL 424	Medieval Drama	3			



ENGL 500	Writing in Workplaces	3
ENGL 501	Writing Internship	3
ENGL 505	Topics in Composition and Rhetoric	3
ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 509	Creative Writing: Advanced Poetry Workshop	3
ENGL 515	Techniques and Materials for TESOL	3
ENGL/ MEDIÉVAL 520	Old English	3
ENGL/ MEDIÉVAL 521	Advanced Old English Literature	3
ENGL/ MEDIÉVAL 522	Middle English Language	3
ENGL 531	Humans, Non-Humans, Post-Humans	3
ENGL 532	Literature and Animal Studies	3
ENGL 533	Topic in Literature and the Environment	3
ENGL/THEATRE 534	American Drama and Theatre to 1900	3
ENGL 537	Sex, Love, and Power. Topic in Literature and Sexuality	3
ENGL 538	Women's Traditions in the Novel	3
ENGL/JEWISH 539	Jewish Literatures in Diaspora	3
ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 544	Modern Discourses of Disability	3
ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL 546	Topic in Travel Writing before 1800	3
ENGL 548	Topic in Literature and Politics	3
ENGL 559	Topic in Literary or Cultural Theory	3
ENGL 560	Narrative Theory	3
ENGL 561	Modern Critical Theories	3
ENGL 562	Topic in Poetry and Poetics	3
ENGL 571	Remix, Mashup, and Digital Design	3
ENGL 572	Smart Media & Critical Information Design	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3
ENGL/THEATRE 576	Survey: Theories of Drama	3
ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 622	Topics in English: Study Abroad	1-6
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 699	Directed Study	1-3

## CREATIVE WRITING

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in creative writing may combine a background in literature with a concentration of courses in fiction or poetry writing. The major requirements are distributed as follows:

Code	Title	Credits
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
ENGL 245	Seminar in the Major	3
One course in American Literature		3
One course in English Language or Composition & Rhetoric		3
Additional ENGL elective credits to achieve 30 credit minimum		3
Three Creative Writing Workshops <sup>1</sup>		9
ENGL 695	Directed Creative Writing	3
Total Credits		30

## CREATIVE WRITING COURSES

### American Literature Courses

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3

ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3	ENGL 271	Writing with New Media	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3	ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL 457	Topic in American Literature and Culture since 1900	3	ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 458	Major American Writer or Writers	3	ENGL 279	Topics in English, Study Abroad - Literature	3
ENGL 459	Three American Novelists	3	ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3	ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3	ENGL 314	Structure of English	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3	ENGL 315	English Phonology	3
ENGL/ ASIAN AM 465	Asian American Poetry	3	ENGL 316	English Language Variation in the U.S.	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3	ENGL 318	Second Language Acquisition	3
ENGL 474	Topic in Contemporary Literature	3	ENGL 319	Language, Race, and Identity	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3	ENGL 328	The Sixteenth Century	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3	ENGL 331	Seventeenth-Century Literature and Culture	3
<b>English Language or Composition &amp; Rhetoric</b>			ENGL 334	Eighteenth Century Literature and Culture	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>	ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 214	The English Language	3	ENGL 336	Eighteenth-Century Novel	3
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3	ENGL 340	Romantic Literature and Culture	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3	ENGL 341	Romantic Poetry	3
ENGL 400	Advanced Composition	3	ENGL 344	Victorian Literature and Culture	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3	ENGL 345	Nineteenth-Century Novel	3
ENGL 500	Writing in Workplaces	3	ENGL 346	Victorian Poetry	3
ENGL 501	Writing Internship	3	ENGL 351	Modernist Novel	3
ENGL 505	Topics in Composition and Rhetoric	3	ENGL 352	Modernist Poetry	3
<b>Additional ENGL Elective Credits</b>			ENGL 353	British Literature since 1900	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>	ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3	ENGL 356	Nineteenth-Century American Fiction	3
ENGL 214	The English Language	3	ENGL 357	Major American Poets	3
ENGL 219	Shakespearean Drama	3	ENGL 358	Literature of the American Renaissance	3
ENGL 220	Shakespearean Drama	3	ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3	ENGL 361	Modern and Contemporary American Literature	3
ENGL 224	Introduction to Poetry	3	ENGL 362	American Fiction since 1900	3
ENGL 243	American Literary Cultures	3	ENGL 363	The American Short Story	3
ENGL/ AMER IND 246	Literature by American Indian Women	3	ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3	ENGL 373	Contemporary Poetry	3
ENGL/GEN&WS 250	Women in Literature	3	ENGL 374	African and African Diaspora Literature and Culture	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3	ENGL 375	Literatures of Migration and Diaspora	3
			ENGL 379	Postcolonial and World Literature	3
			ENGL 381	Sophomore Honors: Research Methods in English	3

ENGL 400	Advanced Composition	3	ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3	ENGL 458	Major American Writer or Writers	3
ENGL 407	Creative Writing: Nonfiction Workshop	3	ENGL 459	Three American Novelists	3
ENGL 408	Creative Writing: Fiction Workshop	3	ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL 409	Creative Writing: Poetry Workshop	3	ENGL/ASIAN AM 462	Topic in Asian American Literature	3
ENGL 410	Creative Writing: Playwriting Workshop	3	ENGL/ASIAN AM/GEN&WS 463	Race and Sexuality in American Literature	3
ENGL 411	Creative Writing: Special Topics Workshop	3	ENGL/ASIAN AM/GEN&WS 464	Asian American Women Writers	3
ENGL 413	English Words: Grammar, Culture, Mind	3	ENGL/ASIAN AM 465	Asian American Poetry	3
ENGL 414	Global Spread of English	3	ENGL/AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 415	Introduction to TESOL Methods	3	ENGL 469	Interdisciplinary Studies in the Arts	1-4
ENGL 416	English in Society	3	ENGL 473	Topic in Postcolonial or World Literature	3
ENGL 417	History of the English Language	3	ENGL 474	Topic in Contemporary Literature	3
ENGL/GEN&WS 419	Gender and Language	3	ENGL/THEATRE 477	Diaspora and Theatre	3
ENGL 420	Topics in English Language and Linguistics	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3	ENGL 479	Contemporary World Theatre in English	3
ENGL/MEDIEVAL 423	Topic in Medieval Literature and Culture	3	ENGL 481	Junior Honors Seminar in the Major	3
ENGL/MEDIEVAL 424	Medieval Drama	3	ENGL 482	Honors Seminar	3
ENGL/MEDIEVAL 425	Medieval Romance	3	ENGL 500	Writing in Workplaces	3
ENGL/MEDIEVAL 426	Chaucers Courtly Poetry	3	ENGL 501	Writing Internship	3
ENGL/MEDIEVAL 427	Chaucer's Canterbury Tales	3	ENGL 505	Topics in Composition and Rhetoric	3
ENGL 430	Topic in Early Modern Literature and Culture	3	ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 431	Early Works of Shakespeare	3	ENGL 509	Creative Writing: Advanced Poetry Workshop	3
ENGL 432	Later Works of Shakespeare	3	ENGL 514	English Syntax	3
ENGL 433	Spenser	3	ENGL 515	Techniques and Materials for TESOL	3
ENGL/RELIG ST 434	Milton	3	ENGL 516	English Grammar in Use	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3	ENGL/MEDIEVAL 520	Old English	3
ENGL 439	Topic in Early American Literature and Culture	3	ENGL/MEDIEVAL 521	Advanced Old English Literature	3
ENGL 443	Outstanding Figure(s) in Literature since 1800	3	ENGL/MEDIEVAL 522	Middle English Language	3
ENGL 444	Topic in Romantic or Victorian Literature and Culture	3	ENGL 531	Humans, Non-Humans, Post-Humans	3
ENGL 446	Romantic Autobiographies	3	ENGL 532	Literature and Animal Studies	3
ENGL 453	Topic in British Literature and Culture since 1900	3	ENGL 533	Topic in Literature and the Environment	3
ENGL 454	James Joyce	3	ENGL/THEATRE 534	American Drama and Theatre to 1900	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3	ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3	ENGL 538	Women's Traditions in the Novel	3
			ENGL/JEWISH 539	Jewish Literatures in Diaspora	3

ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 544	Modern Discourses of Disability	3
ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL 546	Topic in Travel Writing before 1800	3
ENGL 548	Topic in Literature and Politics	3
ENGL 559	Topic in Literary or Cultural Theory	3
ENGL 560	Narrative Theory	3
ENGL 561	Modern Critical Theories	3
ENGL 562	Topic in Poetry and Poetics	3
ENGL 571	Remix, Mashup, and Digital Design	3
ENGL 572	Smart Media & Critical Information Design	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3
ENGL/THEATRE 576	Survey: Theories of Drama	3
ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 622	Topics in English: Study Abroad	1-6
ENGL/AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 699	Directed Study	1-3

### Creative Writing Workshops

Code	Title	Credits
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 411	Creative Writing: Special Topics Workshop	3
ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 509	Creative Writing: Advanced Poetry Workshop	3

<sup>1</sup> Workshops at the 400 level or above may be repeated for credit. Students are allowed to take only one creative writing workshop a semester. All three required workshops must be completed prior to taking the Directed Creative Writing course (ENGL 695).

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ENGL courses and all courses accepted in the major

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: ENGL courses marked Intermediate or Advanced

15 credits in ENGL, taken on campus

## THESIS OF DISTINCTION

Students majoring in English who are not completing Honors in the Major may choose to complete a two semester senior thesis project and take ENGL 691 Senior Thesis and ENGL 692 Senior Thesis. The honor of Thesis of Distinction is granted for an exceptional thesis written in ENGL 691 Senior Thesis–ENGL 692 Senior Thesis upon the recommendation of both the sponsoring faculty member and the honors coordinator. For further information consult the department advisor or the honors coordinator.

## HONORS IN THE MAJOR

Students may declare Honors in the English Major in consultation with the English undergraduate advisor. To be eligible to declare Honors in the English Major, students must:

- Complete ENGL 241 Literature and Culture I: to the 18th Century, ENGL 242 Literature and Culture II: from the 18th Century to the Present, or ENGL 243 American Literary Cultures
- Complete one additional course in the major
- Have completed at least 6 credits in the Department of English
- Have established a 3.500 GPA for all ENGL courses

## HONORS IN THE ENGLISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in English students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ENGL courses
- Complete 12 credits, taken for Honors, to include:
  - ENGL 245 Seminar in the Major or ENGL 381 Sophomore Honors: Research Methods in English
  - ENGL 481 Junior Honors Seminar in the Major, and
  - Either a two-semester Senior Honors Thesis in ENGL 681 Senior Honors Thesis in the Major and ENGL 682 Senior Honors Thesis in the Major for a total of 6 credits or ENGL 680 Honors Project

## HONORS IN THE ENGLISH MAJOR REQUIREMENTS, CREATIVE WRITING TRACK

To earn a B.A. or B.S. with Honors in the Major in English–Creative Writing Track, students must satisfy the Option requirements (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ENGL courses and courses counting in the major
- Complete Sophomore Honors-Research Methods(for Honors): ENGL 245 Seminar in the Major or ENGL 381 Sophomore Honors: Research Methods in English
- Complete ENGL 481 Junior Honors Seminar in the Major, and
- One Advanced Level Creative Writing Workshop for Honors: ENGL 407 Creative Writing: Nonfiction Workshop, ENGL 408 Creative Writing: Fiction Workshop, ENGL 409 Creative Writing: Poetry Workshop, ENGL 410 Creative Writing: Playwriting Workshop, ENGL 411 Creative Writing: Special Topics Workshop, ENGL 508 Creative Writing: Advanced Fiction Workshop, ENGL 509 Creative Writing: Advanced Poetry Workshop

- Directed Creative Writing: ENGL 695

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. **History of literature and language:** To demonstrate knowledge of major forms, techniques, social conditions, values, and genres that have shaped the history of English literature and language.
2. **Critical thinking:** To be able to discern and integrate divergent and contradictory perspectives, identify and question assumptions, and assess evidence and methods.
3. **Creativity:** To generate original ideas and texts, experimenting and taking risks, solving problems, and answering questions in a range of genres and media.
4. **Critical writing:** To write original, coherent, and compelling arguments that push beyond summary to analysis and independent and critical thinking in clear prose that meets expectations for grammatical correctness.
5. **Citizenship:** To develop empathy by learning about the experiences of others, and to gain an understanding of how we participate in communities (including the classroom) and the public sphere.

## ADVISING AND CAREERS

### ADVISING

Karen Redfield, Undergraduate Advisor  
 advisor@english.wisc.edu  
 (608) 263-3760

7195E Helen C. White, 600 North Park Street  
 English Undergraduate Advising (<https://english.wisc.edu/undergraduate-advising.htm>)

### CAREERS AND INTERNSHIP ADVISOR

Career & Internship Coordinator  
 careers@english.wisc.edu (Career & Internship Coordinator  
 careers@english.wisc.edu)

7195E Helen C. White, 600 North Park Street  
 English Career Advising (<https://english.wisc.edu/undergraduate-careeradvising.htm>)

English Career Preparation (<https://english.wisc.edu/undergraduate-advising-tab.htm#tab-content-block-2012>)

## LETTERS & SCIENCE CAREER SERVICES

The English department encourages our majors to begin working on their career exploration and preparation soon after declaring their major. Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<https://careers.ls.wisc.edu/make-an-appointment>)
- L&S Career Services (<https://careers.ls.wisc.edu>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/lsci>)

## PEOPLE

### FACULTY

Professors Auerbach, Barry, Begam, Bernard-Donals, Bow, Britland, Castronovo, Dharwadker, Foys, Friedman, Guyer, Hill, Johnson, Keller, Kelley, Kercheval, Mitchell, Olaniyan, Ortiz-Robles, Purnell, Raimy, Sherrard-Johnson, Steele, Wanner, M. Young, R. Young, Yu, Zimmerman

Associate Professors Allewaert, Bearden, Cooper, Olson, Samuels, Trotter, Valenza, Vieira

Assistant Professors Calhoun, Cho, Druschke, Evans, Fawaz, Vareschi, Zweck

## RESOURCES AND SCHOLARSHIPS

### WRITING CENTER

The Writing Center (<http://www.wisc.edu/writing>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<http://www.wisc.edu/writing>).

## ENGLISH, B.S.

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

English majors choose one of three tracks: the general major (which emphasizes literary and cultural studies), creative writing, or language and linguistics. All majors take a core curriculum that introduces them to a range of approaches to literature and language, including courses in literary and cultural history. Students who opt for the general major build on core courses with intermediate and advanced classes that focus on texts from across a range of periods and places, investigating literature and culture using multiple methods and approaches. Students pursuing the emphasis on creative writing take the core curriculum with a sequence of creative writing workshops. Students wishing to emphasize language and linguistics choose options in grammar, the history of the English language, phonology, and language acquisition.

## TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## HOW TO GET IN

Information about the English major can be found on the department website (<http://www.english.wisc.edu/undergraduate>) and also in the department office, 7195 Helen C. White Hall. Students interested in declaring the major should schedule an appointment (<https://english.wisc.edu/undergraduate-advising.htm>) with Dr. Karen Redfield, the Undergraduate Advisor. Students must complete 6 credits of introductory literature before they declare, but are welcome to meet with the advisor at any time. These 6 credits must carry the "L" breadth designation, regardless of the subject in which they are taken.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

Completion of the major requires a minimum of 30 credits in intermediate- or advanced-level English courses numbered 204 and higher, with the exception of ENGL 201 Intermediate Composition, ENGL 207 Introduction to Creative Writing: Fiction and Poetry Workshop and ENGL 236 Bascom Course.

Code	Title	Credits
Select one of the following:		30
	English (Literature)	
	English Language and Linguistics	
	Creative Writing	
Total Credits		30

The major requirements are distributed as follows:

## ENGLISH (LITERATURE)

Code	Title	Credits
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
One course in American Literature		3
One pre-1800 course (may be Shakespeare)		3
One pre-1800 course (CANNOT be Shakespeare)		3
One course in English Language or Composition & Rhetoric		3
ENGL 245	Seminar in the Major	3
Additional ENGL elective credits to achieve 30 credit minimum		9
Total Credits		30

## ENGLISH (LITERATURE) COURSES

### American Literature Courses

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 458	Major American Writer or Writers	3
ENGL 459	Three American Novelists	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 474	Topic in Contemporary Literature	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

**Pre-1800 Literature (may be Shakespeare)**

Code	Title	Credits
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MEDIEVAL 424	Medieval Drama	3
ENGL/ MEDIEVAL 425	Medieval Romance	3
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 431	Early Works of Shakespeare	3
ENGL 432	Later Works of Shakespeare	3
ENGL 433	Spenser	3
ENGL/RELIG ST 434	Milton	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL/ MEDIEVAL 520	Old English	3
ENGL/ MEDIEVAL 521	Advanced Old English Literature	3
ENGL 546	Topic in Travel Writing before 1800	3

**Pre-1800 Literature (CANNOT be Shakespeare)**

Code	Title	Credits
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3

ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MEDIEVAL 424	Medieval Drama	3
ENGL/ MEDIEVAL 425	Medieval Romance	3
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 433	Spenser	3
ENGL/RELIG ST 434	Milton	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL/ MEDIEVAL 520	Old English	3
ENGL/ MEDIEVAL 521	Advanced Old English Literature	3
ENGL 546	Topic in Travel Writing before 1800	3

**English Language or Composition & Rhetoric**

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 214	The English Language	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 400	Advanced Composition	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL 500	Writing in Workplaces	3
ENGL 501	Writing Internship	3
ENGL 505	Topics in Composition and Rhetoric	3

**Additional ENGL Elective Credits**

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 214	The English Language	3
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 224	Introduction to Poetry	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3



ENGL 271	Writing with New Media	3	ENGL 400	Advanced Composition	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3	ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3	ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 279	Topics in English, Study Abroad - Literature	3	ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3	ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3	ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 314	Structure of English	3	ENGL 411	Creative Writing: Special Topics Workshop	3
ENGL 315	English Phonology	3	ENGL 413	English Words: Grammar, Culture, Mind	3
ENGL 316	English Language Variation in the U.S.	3	ENGL 414	Global Spread of English	3
ENGL 318	Second Language Acquisition	3	ENGL 415	Introduction to TESOL Methods	3
ENGL 319	Language, Race, and Identity	3	ENGL 416	English in Society	3
ENGL 328	The Sixteenth Century	3	ENGL 417	History of the English Language	3
ENGL 331	Seventeenth-Century Literature and Culture	3	ENGL/GEN&WS 419	Gender and Language	3
ENGL 334	Eighteenth Century Literature and Culture	3	ENGL 420	Topics in English Language and Linguistics	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3	ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL 336	Eighteenth-Century Novel	3	ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3
ENGL 340	Romantic Literature and Culture	3	ENGL/ MEDIEVAL 424	Medieval Drama	3
ENGL 341	Romantic Poetry	3	ENGL/ MEDIEVAL 425	Medieval Romance	3
ENGL 344	Victorian Literature and Culture	3	ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3
ENGL 345	Nineteenth-Century Novel	3	ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
ENGL 346	Victorian Poetry	3	ENGL 430	Topic in Early Modern Literature and Culture	3
ENGL 351	Modernist Novel	3	ENGL 431	Early Works of Shakespeare	3
ENGL 352	Modernist Poetry	3	ENGL 432	Later Works of Shakespeare	3
ENGL 353	British Literature since 1900	3	ENGL 433	Spenser	3
ENGL 355	Colonial and Early Romantic American Literature	3	ENGL/RELIG ST 434	Milton	3
ENGL 356	Nineteenth-Century American Fiction	3	ENGL 438	Topic in Eighteenth-Century Literature and Culture	3
ENGL 357	Major American Poets	3	ENGL 439	Topic in Early American Literature and Culture	3
ENGL 358	Literature of the American Renaissance	3	ENGL 443	Outstanding Figure(s) in Literature since 1800	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3	ENGL 444	Topic in Romantic or Victorian Literature and Culture	3
ENGL 361	Modern and Contemporary American Literature	3	ENGL 446	Romantic Autobiographies	3
ENGL 362	American Fiction since 1900	3	ENGL 453	Topic in British Literature and Culture since 1900	3
ENGL 363	The American Short Story	3	ENGL 454	James Joyce	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3	ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 373	Contemporary Poetry	3	ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 374	African and African Diaspora Literature and Culture	3			
ENGL 375	Literatures of Migration and Diaspora	3			
ENGL 379	Postcolonial and World Literature	3			
ENGL 381	Sophomore Honors: Research Methods in English	3			

ENGL 457	Topic in American Literature and Culture since 1900	3	ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 458	Major American Writer or Writers	3	ENGL 544	Modern Discourses of Disability	3
ENGL 459	Three American Novelists	3	ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3	ENGL 546	Topic in Travel Writing before 1800	3
ENGL/ ASIAN AM 462	Topic in Asian American Literature	3	ENGL 548	Topic in Literature and Politics	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3	ENGL 559	Topic in Literary or Cultural Theory	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3	ENGL 560	Narrative Theory	3
ENGL/ ASIAN AM 465	Asian American Poetry	3	ENGL 561	Modern Critical Theories	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3	ENGL 562	Topic in Poetry and Poetics	3
ENGL 469	Interdisciplinary Studies in the Arts	1-4	ENGL 571	Remix, Mashup, and Digital Design	3
ENGL 473	Topic in Postcolonial or World Literature	3	ENGL 572	Smart Media & Critical Information Design	3
ENGL 474	Topic in Contemporary Literature	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
ENGL/THEATRE 477	Diaspora and Theatre	3	ENGL/THEATRE 576	Survey: Theories of Drama	3
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
ENGL 479	Contemporary World Theatre in English	3	ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL 481	Junior Honors Seminar in the Major	3	ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 482	Honors Seminar	3	ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 500	Writing in Workplaces	3	ENGL 699	Directed Study	1-3
ENGL 501	Writing Internship	3	<b>ENGLISH LANGUAGE AND LINGUISTICS</b>		
ENGL 505	Topics in Composition and Rhetoric	3	NOTE: This is a track and will not appear on the transcript.		
ENGL 508	Creative Writing: Advanced Fiction Workshop	3	An optional emphasis on English language and linguistics is available to the interested L&S undergraduate who wishes to combine a background in literature with a concentration of courses in the history and structure of the English language. The major requirements are distributed as follows:		
ENGL 509	Creative Writing: Advanced Poetry Workshop	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ENGL 514	English Syntax	3	ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 515	Techniques and Materials for TESOL	3	ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
ENGL 516	English Grammar in Use	3	One Course in American Literature		
ENGL/ MEDIEVAL 520	Old English	3	ENGL 245	Seminar in the Major	3
ENGL/ MEDIEVAL 521	Advanced Old English Literature	3	ENGL 214	The English Language	3
ENGL/ MEDIEVAL 522	Middle English Language	3	ENGL 314	Structure of English	3
ENGL 531	Humans, Non-Humans, Post-Humans	3	ENGL 514	English Syntax	3
ENGL 532	Literature and Animal Studies	3	or ENGL 516	English Grammar in Use	3
ENGL 533	Topic in Literature and the Environment	3	ENGL 315	English Phonology	3
ENGL/THEATRE 534	American Drama and Theatre to 1900	3	Additional ENGL elective credits to achieve 30 credit minimum		
ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality	3	<hr/>		
ENGL 538	Women's Traditions in the Novel	3	Total Credits		30
ENGL/JEWISH 539	Jewish Literatures in Diaspora	3			

**ENGLISH LANGUAGE AND LINGUISTICS COURSES****American Literature Courses**

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 458	Major American Writer or Writers	3
ENGL 459	Three American Novelists	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 474	Topic in Contemporary Literature	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

**Additional ENGL Elective Credits**

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 224	Introduction to Poetry	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 271	Writing with New Media	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 279	Topics in English, Study Abroad - Literature	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 319	Language, Race, and Identity	3
ENGL 328	The Sixteenth Century	3
ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL 340	Romantic Literature and Culture	3
ENGL 341	Romantic Poetry	3
ENGL 344	Victorian Literature and Culture	3
ENGL 345	Nineteenth-Century Novel	3
ENGL 346	Victorian Poetry	3
ENGL 351	Modernist Novel	3
ENGL 352	Modernist Poetry	3
ENGL 353	British Literature since 1900	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3

ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3	ENGL 439	Topic in Early American Literature and Culture	3
ENGL 361	Modern and Contemporary American Literature	3	ENGL 443	Outstanding Figure(s) in Literature since 1800	3
ENGL 362	American Fiction since 1900	3	ENGL 444	Topic in Romantic or Victorian Literature and Culture	3
ENGL 363	The American Short Story	3	ENGL 446	Romantic Autobiographies	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3	ENGL 453	Topic in British Literature and Culture since 1900	3
ENGL 373	Contemporary Poetry	3	ENGL 454	James Joyce	3
ENGL 374	African and African Diaspora Literature and Culture	3	ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 375	Literatures of Migration and Diaspora	3	ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 379	Postcolonial and World Literature	3	ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 381	Sophomore Honors: Research Methods in English	3	ENGL 458	Major American Writer or Writers	3
ENGL 400	Advanced Composition	3	ENGL 459	Three American Novelists	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3	ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL 407	Creative Writing: Nonfiction Workshop	3	ENGL/ ASIAN AM 462	Topic in Asian American Literature	3
ENGL 408	Creative Writing: Fiction Workshop	3	ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
ENGL 409	Creative Writing: Poetry Workshop	3	ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL 410	Creative Writing: Playwriting Workshop	3	ENGL/ ASIAN AM 465	Asian American Poetry	3
ENGL 411	Creative Writing: Special Topics Workshop	3	ENGL/ AMER IND 467	Contemporary American Indian Literature Since 1953	3
ENGL 413	English Words: Grammar, Culture, Mind	3	ENGL 469	Interdisciplinary Studies in the Arts	1-4
ENGL 414	Global Spread of English	3	ENGL 473	Topic in Postcolonial or World Literature	3
ENGL 415	Introduction to TESOL Methods	3	ENGL 474	Topic in Contemporary Literature	3
ENGL 416	English in Society	3	ENGL/THEATRE 477	Diaspora and Theatre	3
ENGL 417	History of the English Language	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ENGL/GEN&WS 419	Gender and Language	3	ENGL 479	Contemporary World Theatre in English	3
ENGL 420	Topics in English Language and Linguistics	3	ENGL 481	Junior Honors Seminar in the Major	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3	ENGL 482	Honors Seminar	3
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3	ENGL 500	Writing in Workplaces	3
ENGL/ MEDIEVAL 424	Medieval Drama	3	ENGL 501	Writing Internship	3
ENGL/ MEDIEVAL 425	Medieval Romance	3	ENGL 505	Topics in Composition and Rhetoric	3
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	3	ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3	ENGL 509	Creative Writing: Advanced Poetry Workshop	3
ENGL 430	Topic in Early Modern Literature and Culture	3	ENGL 515	Techniques and Materials for TESOL	3
ENGL 431	Early Works of Shakespeare	3	ENGL/ MEDIEVAL 520	Old English	3
ENGL 432	Later Works of Shakespeare	3	ENGL/ MEDIEVAL 521	Advanced Old English Literature	3
ENGL 433	Spenser	3	ENGL/ MEDIEVAL 522	Middle English Language	3
ENGL/RELIG ST 434	Milton	3			
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3			

ENGL 531	Humans, Non-Humans, Post-Humans	3
ENGL 532	Literature and Animal Studies	3
ENGL 533	Topic in Literature and the Environment	3
ENGL/THEATRE 534	American Drama and Theatre to 1900	3
ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality	3
ENGL 538	Women's Traditions in the Novel	3
ENGL/JEWISH 539	Jewish Literatures in Diaspora	3
ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 544	Modern Discourses of Disability	3
ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL 546	Topic in Travel Writing before 1800	3
ENGL 548	Topic in Literature and Politics	3
ENGL 559	Topic in Literary or Cultural Theory	3
ENGL 560	Narrative Theory	3
ENGL 561	Modern Critical Theories	3
ENGL 562	Topic in Poetry and Poetics	3
ENGL 571	Remix, Mashup, and Digital Design	3
ENGL 572	Smart Media & Critical Information Design	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3
ENGL/THEATRE 576	Survey: Theories of Drama	3
ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 622	Topics in English: Study Abroad	1-6
ENGL/AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 699	Directed Study	1-3

## CREATIVE WRITING

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in creative writing may combine a background in literature with a concentration of courses in fiction or poetry writing. The major requirements are distributed as follows:

Code	Title	Credits
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
ENGL 245	Seminar in the Major	3
	One course in American Literature	3
	One course in English Language or Composition & Rhetoric	3

Additional ENGL elective credits to achieve 30 credit minimum	3
Three Creative Writing Workshops <sup>1</sup>	9
ENGL 695 Directed Creative Writing	3
<b>Total Credits</b>	<b>30</b>

## CREATIVE WRITING COURSES

### American Literature Courses

Code	Title	Credits
ENGL/LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 243	American Literary Cultures	3
ENGL/AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ASIAN AM 270	A Survey of Asian American Literature	3
ENGL/AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/AMER IND 275	American Indian Oral Literatures	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 439	Topic in Early American Literature and Culture	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3
ENGL 457	Topic in American Literature and Culture since 1900	3
ENGL 458	Major American Writer or Writers	3
ENGL 459	Three American Novelists	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/GEN&WS 463	Race and Sexuality in American Literature	3
ENGL/ASIAN AM/GEN&WS 464	Asian American Women Writers	3
ENGL/ASIAN AM 465	Asian American Poetry	3
ENGL/AMER IND 467	Contemporary American Indian Literature Since 1953	3

ENGL 474	Topic in Contemporary Literature	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

### English Language or Composition & Rhetoric

Code	Title	Credits
ENGL 214	The English Language	3
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 400	Advanced Composition	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL 500	Writing in Workplaces	3
ENGL 501	Writing Internship	3
ENGL 505	Topics in Composition and Rhetoric	3

### Additional ENGL Elective Credits

Code	Title	Credits
ENGL 204	Studies in Writing, Rhetoric, and Literacy	3
ENGL 214	The English Language	3
ENGL 219	Shakespearean Drama	3
ENGL 220	Shakespearean Drama	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ENGL 224	Introduction to Poetry	3
ENGL 243	American Literary Cultures	3
ENGL/ AMER IND 246	Literature by American Indian Women	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 271	Writing with New Media	3
ENGL/ AMER IND 274	Indigenous Literature of the Great Lakes	3
ENGL/ AMER IND 275	American Indian Oral Literatures	3
ENGL 279	Topics in English, Study Abroad - Literature	3
ENGL 304	Composition & Rhetoric In and Beyond the University	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 319	Language, Race, and Identity	3
ENGL 328	The Sixteenth Century	3

ENGL 331	Seventeenth-Century Literature and Culture	3
ENGL 334	Eighteenth Century Literature and Culture	3
ENGL 335	Stage and Page in the Long Eighteenth Century	3
ENGL 336	Eighteenth-Century Novel	3
ENGL 340	Romantic Literature and Culture	3
ENGL 341	Romantic Poetry	3
ENGL 344	Victorian Literature and Culture	3
ENGL 345	Nineteenth-Century Novel	3
ENGL 346	Victorian Poetry	3
ENGL 351	Modernist Novel	3
ENGL 352	Modernist Poetry	3
ENGL 353	British Literature since 1900	3
ENGL 355	Colonial and Early Romantic American Literature	3
ENGL 356	Nineteenth-Century American Fiction	3
ENGL 357	Major American Poets	3
ENGL 358	Literature of the American Renaissance	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 361	Modern and Contemporary American Literature	3
ENGL 362	American Fiction since 1900	3
ENGL 363	The American Short Story	3
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
ENGL 373	Contemporary Poetry	3
ENGL 374	African and African Diaspora Literature and Culture	3
ENGL 375	Literatures of Migration and Diaspora	3
ENGL 379	Postcolonial and World Literature	3
ENGL 381	Sophomore Honors: Research Methods in English	3
ENGL 400	Advanced Composition	3
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 411	Creative Writing: Special Topics Workshop	3
ENGL 413	English Words: Grammar, Culture, Mind	3
ENGL 414	Global Spread of English	3
ENGL 415	Introduction to TESOL Methods	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL/GEN&WS 419	Gender and Language	3

ENGL 420	Topics in English Language and Linguistics	3	ENGL/THEATRE 477	Diaspora and Theatre	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ENGL/MEDIEVAL 423	Topic in Medieval Literature and Culture	3	ENGL 479	Contemporary World Theatre in English	3
ENGL/MEDIEVAL 424	Medieval Drama	3	ENGL 481	Junior Honors Seminar in the Major	3
ENGL/MEDIEVAL 425	Medieval Romance	3	ENGL 482	Honors Seminar	3
ENGL/MEDIEVAL 426	Chaucers Courtly Poetry	3	ENGL 500	Writing in Workplaces	3
ENGL/MEDIEVAL 427	Chaucer's Canterbury Tales	3	ENGL 501	Writing Internship	3
ENGL 430	Topic in Early Modern Literature and Culture	3	ENGL 505	Topics in Composition and Rhetoric	3
ENGL 431	Early Works of Shakespeare	3	ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 432	Later Works of Shakespeare	3	ENGL 509	Creative Writing: Advanced Poetry Workshop	3
ENGL 433	Spenser	3	ENGL 514	English Syntax	3
ENGL/RELIG ST 434	Milton	3	ENGL 515	Techniques and Materials for TESOL	3
ENGL 438	Topic in Eighteenth-Century Literature and Culture	3	ENGL 516	English Grammar in Use	3
ENGL 439	Topic in Early American Literature and Culture	3	ENGL/MEDIEVAL 520	Old English	3
ENGL 443	Outstanding Figure(s) in Literature since 1800	3	ENGL/MEDIEVAL 521	Advanced Old English Literature	3
ENGL 444	Topic in Romantic or Victorian Literature and Culture	3	ENGL/MEDIEVAL 522	Middle English Language	3
ENGL 446	Romantic Autobiographies	3	ENGL 531	Humans, Non-Humans, Post-Humans	3
ENGL 453	Topic in British Literature and Culture since 1900	3	ENGL 532	Literature and Animal Studies	3
ENGL 454	James Joyce	3	ENGL 533	Topic in Literature and the Environment	3
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	3	ENGL/THEATRE 534	American Drama and Theatre to 1900	3
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	3	ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality	3
ENGL 457	Topic in American Literature and Culture since 1900	3	ENGL 538	Women's Traditions in the Novel	3
ENGL 458	Major American Writer or Writers	3	ENGL/JEWISH 539	Jewish Literatures in Diaspora	3
ENGL 459	Three American Novelists	3	ENGL 543	Discourses of Disability, Antiquity to 1800	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3	ENGL 544	Modern Discourses of Disability	3
ENGL/ASIAN AM 462	Topic in Asian American Literature	3	ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English	3
ENGL/ASIAN AM/GEN&WS 463	Race and Sexuality in American Literature	3	ENGL 546	Topic in Travel Writing before 1800	3
ENGL/ASIAN AM/GEN&WS 464	Asian American Women Writers	3	ENGL 548	Topic in Literature and Politics	3
ENGL/ASIAN AM 465	Asian American Poetry	3	ENGL 559	Topic in Literary or Cultural Theory	3
ENGL/AMER IND 467	Contemporary American Indian Literature Since 1953	3	ENGL 560	Narrative Theory	3
ENGL 469	Interdisciplinary Studies in the Arts	1-4	ENGL 561	Modern Critical Theories	3
ENGL 473	Topic in Postcolonial or World Literature	3	ENGL 562	Topic in Poetry and Poetics	3
ENGL 474	Topic in Contemporary Literature	3	ENGL 571	Remix, Mashup, and Digital Design	3
			ENGL 572	Smart Media & Critical Information Design	3
			ENGL/THEATRE 575	British Drama, 1914 to Present	3
			ENGL/THEATRE 576	Survey: Theories of Drama	3
			ENGL/THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3

ENGL/THEATRE 578	Modern American Drama and Theatre	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL 622	Topics in English: Study Abroad	1-6
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3
ENGL 699	Directed Study	1-3

### Creative Writing Workshops

Code	Title	Credits
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 411	Creative Writing: Special Topics Workshop	3
ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 509	Creative Writing: Advanced Poetry Workshop	3

<sup>1</sup> Workshops at the 400 level or above may be repeated for credit. Students are allowed to take only one creative writing workshop a semester. All three required workshops must be completed prior to taking the Directed Creative Writing course (ENGL 695).

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ENGL courses and all courses accepted in the major

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: ENGL courses marked Intermediate or Advanced

15 credits in ENGL, taken on campus

### THESIS OF DISTINCTION

Students majoring in English who are not completing Honors in the Major may choose to complete a two semester senior thesis project and take ENGL 691 Senior Thesis and ENGL 692 Senior Thesis. The honor of Thesis of Distinction is granted for an exceptional thesis written in ENGL 691 Senior Thesis–ENGL 692 Senior Thesis upon the recommendation of both the sponsoring faculty member and the honors coordinator. For further information consult the department advisor or the honors coordinator.

### HONORS IN THE MAJOR

Students may declare Honors in the English Major in consultation with the English undergraduate advisor. To be eligible to declare Honors in the English Major, students must:

- Complete ENGL 241 Literature and Culture I: to the 18th Century, ENGL 242 Literature and Culture II: from the 18th Century to the Present, or ENGL 243 American Literary Cultures
- Complete one additional course in the major
- Have completed at least 6 credits in the Department of English

- Have established a 3.500 GPA for all ENGL courses

### HONORS IN THE ENGLISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in English students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ENGL courses
- Complete 12 credits, taken for Honors, to include:
  - ENGL 245 Seminar in the Major or ENGL 381 Sophomore Honors: Research Methods in English
  - ENGL 481 Junior Honors Seminar in the Major, and
  - Either a two-semester Senior Honors Thesis in ENGL 681 Senior Honors Thesis in the Major and ENGL 682 Senior Honors Thesis in the Major for a total of 6 credits or ENGL 680 Honors Project

### HONORS IN THE ENGLISH MAJOR REQUIREMENTS, CREATIVE WRITING TRACK

To earn a B.A. or B.S. with Honors in the Major in English–Creative Writing Track, students must satisfy the Option requirements (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ENGL courses and courses counting in the major
- Complete Sophomore Honors-Research Methods(for Honors): ENGL 245 Seminar in the Major or ENGL 381 Sophomore Honors: Research Methods in English
- Complete ENGL 481 Junior Honors Seminar in the Major, and
- One Advanced Level Creative Writing Workshop for Honors: ENGL 407 Creative Writing: Nonfiction Workshop, ENGL 408 Creative Writing: Fiction Workshop, ENGL 409 Creative Writing: Poetry Workshop, ENGL 410 Creative Writing: Playwriting Workshop, ENGL 411 Creative Writing: Special Topics Workshop, ENGL 508 Creative Writing: Advanced Fiction Workshop, ENGL 509 Creative Writing: Advanced Poetry Workshop
- Directed Creative Writing: ENGL 695

### UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

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

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



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

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<https://careers.ls.wisc.edu/make-an-appointment>)
- L&S Career Services (<https://careers.ls.wisc.edu>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/lsci>)

## LEARNING OUTCOMES

1. **History of literature and language:** To demonstrate knowledge of major forms, techniques, social conditions, values, and genres that have shaped the history of English literature and language.
2. **Critical thinking:** To be able to discern and integrate divergent and contradictory perspectives, identify and question assumptions, and assess evidence and methods.
3. **Creativity:** To generate original ideas and texts, experimenting and taking risks, solving problems, and answering questions in a range of genres and media.
4. **Critical writing:** To write original, coherent, and compelling arguments that push beyond summary to analysis and independent and critical thinking in clear prose that meets expectations for grammatical correctness.
5. **Citizenship:** To develop empathy by learning about the experiences of others, and to gain an understanding of how we participate in communities (including the classroom) and the public sphere.

## PEOPLE

### FACULTY

Professors Auerbach, Barry, Begam, Bernard-Donals, Bow, Britland, Castronovo, Dharwadker, Foys, Friedman, Guyer, Hill, Johnson, Keller, Kelley, Kercheval, Mitchell, Olaniyan, Ortiz-Robles, Purnell, Raimy, Sherrard-Johnson, Steele, Wanner, M. Young, R. Young, Yu, Zimmerman

Associate Professors Allewaert, Bearden, Cooper, Olson, Samuels, Trotter, Valenza, Vieira

Assistant Professors Calhoun, Cho, Druschke, Evans, Fawaz, Vareschi, Zweck

## ADVISING AND CAREERS

### ADVISING

Karen Redfield, Undergraduate Advisor  
[advisor@english.wisc.edu](mailto:advisor@english.wisc.edu)  
 (608) 263-3760

7195E Helen C. White, 600 North Park Street  
 English Undergraduate Advising (<https://english.wisc.edu/undergraduate-advising.htm>)

### CAREERS AND INTERNSHIP ADVISOR

#### Career & Internship Coordinator

[careers@english.wisc.edu](mailto:careers@english.wisc.edu) (Career & Internship Coordinator  
[careers@english.wisc.edu](mailto:careers@english.wisc.edu))

7195E Helen C. White, 600 North Park Street  
 English Career Advising (<https://english.wisc.edu/undergraduate-careeradvising.htm>)

English Career Preparation (<https://english.wisc.edu/undergraduate-advising-tab.htm#tab-content-block-2012>)

### LETTERS & SCIENCE CAREER SERVICES

The English department encourages our majors to begin working on their career exploration and preparation soon after declaring their major. Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

## RESOURCES AND SCHOLARSHIPS

### WRITING CENTER

The Writing Center (<http://www.wisc.edu/writing>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<http://www.wisc.edu/writing>).

## HEALTH AND THE HUMANITIES, CERTIFICATE

Enrollment for this certificate program will open in fall 2017. For more information, please watch for information sessions that will be held in the fall.

### HOW TO GET IN

Enrollment for this certificate program will open in fall 2017. For more information, please watch for information sessions that will be held in the fall.

### REQUIREMENTS

Total Credits Required: 15

#### CORE COURSE

Select one of the following:

Code	Title	Credits
HIST SCI/ MED HIST 133	Biology and Society, 1950 - Today	3
HIST SCI/ MED HIST 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	3
MED HIST/ ANTHRO 231	Introduction to Social Medicine	3
ENGL 156	Literature and Medicine	3
RELIG ST 102	Exploring Religion in Sickness and Health	3

#### HEALTH AND ILLNESS IN SOCIAL CONTEXT

Select two courses:

Code	Title	Credits
AMER IND/C&E SOC/ SOC 578	Poverty and Place	3
ANTHRO 365	Medical Anthropology	3
COM ARTS 317	Rhetoric and Health	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS 533	Special Topics in Women and Health	3
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
MED HIST/GEN&WS/ HIST SCI 431	Childbirth in the United States	3
MED HIST/HIST SCI/ HISTORY 504	Society and Health Care in American History	3
MED HIST/ PHILOS 505	Justice and Health Care	3

MED HIST/HIST SCI/ HISTORY 507	Health, Disease and Healing I	3-4
MED HIST/HIST SCI/ HISTORY 508	Health, Disease and Healing II	3-4
MED HIST/ HIST SCI 509	The Development of Public Health in America	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/ AFROAMER/ HIST SCI 523	Race, American Medicine and Public Health	3
MED HIST 526	Medical Technology and the Body	3
MED HIST/GEN&WS/ HIST SCI 531	Women and Health in American History	3
MED HIST/GEN&WS/ HIST SCI 532	The History of the (American) Body	3
MED HIST 545	Ethical and Regulatory Issues in Clinical Investigation	1
MED HIST/ HIST SCI 550	Medical Technologies in Historical Perspective	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology	3-4
S&A PHM/ CLASSICS/ HIST SCI/HISTORY/ MED HIST 561	Greek and Roman Medicine and Pharmacy	3
S&A PHM/HIST SCI/ HISTORY/MED HIST/ MEDIEVAL 562	Byzantine Medicine and Pharmacy	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3

#### CULTURAL COMPETENCY

Complete one course aimed at understanding the social, cultural, and linguistic needs of patients:

Code	Title	Credits
AFRICAN 201	Introduction to African Literature	3
AFRICAN 211	The African Autobiography	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3

AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 412	Contemporary African Fiction	3-4
AFROAMER 151	Introduction to Contemporary Afro- American Society	3
AFROAMER 155	They: Race in American Literature	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3
AFROAMER 225	Introduction to African American Dramatic Literature	3
AFROAMER 227	Masterpieces of African American Literature	3
AMER IND 100	Introduction to American Indian Studies	3
AMER IND/ HISTORY 490	American Indian History	3-4
AMER IND/ HDFS 522	American Indian Families	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/CHICLA/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
ASIAN AM 240	Topics in Asian American Studies	3
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
CHICLA 210	Chicana/o and Latina/o Cultural Studies	3
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	3
COM ARTS 565	Communication and Interethnic Behavior	3
GEN&WS 101	Gender, Women, and Cultural Representation	3
GEN&WS 102	Gender, Women, and Society in Global Perspective	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
RELIG ST 101	Religion in Global Perspective	3
RELIG ST 271	Religion in History and Culture: The West	3
SOC 125	American Society: How It Really Works	3-4
SOC 134	Problems of American Racial and Ethnic Minorities	3-4
SOC 138	The Sociology of Gender	3-4

SOC/GEN&WS 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 623	Gender, Society, and Politics	3

## CAPSTONE

### Select one of the following:

Code	Title	Credits
DANCE 231	Introduction to Dance/Movement Therapy	2
NURSING 511	Community Supports for People with Dementia	2
RP & SE 300	Individuals with Disabilities	3

## PEOPLE

Faculty Co-Directors: Nicole Nelson (<https://histsci.wisc.edu/people/faculty/nelson/nelson.shtml>) and Judith Houck (<https://histsci.wisc.edu/people/faculty/houck/houck.shtml>)

Core Program Faculty and Staff with Departmental Affiliation:

- Monique Allewaert, English
- Lisa Bratzke, School of Nursing
- Jenell Johnson, Communication Arts
- Judy Houck, Gender and Women's Studies
- Neil Kodesh, History
- Sue Lederer, Medical History and Bioethics
- Nicole Nelson, History of Science
- Corrie Norman, Religious Studies
- Dija Selimi, Center for Pre#Health Advising
- Sunny Yudkoff, Center for Jewish Studies

Advisor: To be named

## TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES, CERTIFICATE

A certificate in teaching English to speakers of other languages (TESOL) is available to undergraduate students who wish to teach English as a foreign or second language, normally in positions abroad. Native English speakers must have the equivalent of four college-level semesters of one language including its spoken form. For nonnative English speakers, English is the foreign language. Nonnative English speakers must have a score of at least 50 on TSE or SPEAK and or 26 on the iBT speaking section and a TOEFL score of 100 on the iBT or 600 on the paper version. A score of 84 on the MELAB or 7 on the IELTS can be substituted for the TOEFL. Students must maintain a GPA of 3.0 based on all courses except for the TESOL Workshops which are graded pass/fail.

## HOW TO GET IN

Fill out the online application and submit to the ESL office. Students should apply as early as possible (after the sophomore year if they are undergraduates) to allow enough time to complete the requirements.

Download the **Undergraduate Application**.

Academic requirements for the program are:

**For Undergraduates:** Enrollment in any one of the required certificate courses and a degree program at UW–Madison.

Native English speakers must show completion of four college-level semesters of one language (prior to or completed concurrently with certificate coursework).

Nonnative English speakers are required to show English language proficiency in the following ways:

- A minimum score of 50 on TSE or SPEAK or an iBy score of 26 on the speaking section of the TOEFL
- A minimum score of 100 on the TOEFL iBT or 600 on the paper-based version of the TOEFL or 7 on the IELTS (International English Language Testing System) can be substituted for the TOEFL.

## REQUIREMENTS

The required 21 credits of course work include:

Code	Title	Credits
Foundation Courses		
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 415	Introduction to TESOL Methods	3
Second Language Acquisition and Teaching Courses		
ENGL 318	Second Language Acquisition	3
ENGL 515	Techniques and Materials for TESOL	3
Students must take 3 credits of TESOL Workshops during the same semester. Each spring, three of the six 1-credit workshops are offered in alternate years:		3
ENGL 613	TESOL: Pedagogical Grammar I	
ENGL 614	TESOL: Pedagogical Grammar II	
ENGL 615	TESOL: Teaching Listening and Speaking	
ENGL 616	TESOL: Teaching of Reading	
ENGL 617	TESOL: Teaching of Writing	
ENGL 618	TESOL: Teaching Pronunciation	
Social Perspectives on English Courses (choose one of the following four courses):		3
ENGL 316	English Language Variation in the U.S.	
ENGL 414	Global Spread of English	
ENGL 416	English in Society	

ENGL/ Gender and Language  
GEN&WS 419

Total Credits

21

### Residence and Quality of Work:

Students must maintain a 3.000 cumulative GPA in all courses required for the Certificate.

At least 11 credits for the certificate must be earned in residence.

*Further information is available in the ESL Program Office (5134 Helen C. White Hall) and online.*

## ADVISING AND CAREERS

Eric Raimy  
7123 Helen C. White Hall  
600 N. Park Street  
Madison WI, 53706  
raimy@wisc.edu

## PEOPLE

### FACULTY

Professors Purnell, Raimy, Wanner, R. Young

Assistant Professor Cho

## ENVIRONMENTAL STUDIES

### DEGREES/MAJORS/CERTIFICATES

- Environmental Studies Major (p. 604)

## ENVIRONMENTAL STUDIES MAJOR

### WHY CHOOSE AN ENVIRONMENTAL STUDIES MAJOR?

The Gaylord Nelson Institute for Environmental Studies is one of the world's leading institutions for environmental studies and is the administrative home for the major. The major offers a robust and interdisciplinary curriculum that spans all contemporary disciplines that touch upon the environment. The curriculum includes biological sciences, physical sciences, and social sciences, as well as humanities, history, health, and modern culture.

The environmental studies major, offered by the College of Letters & Science and administered by the Nelson Institute for Environmental Studies, provides unique opportunities for undergraduate students to broaden their studies through interdisciplinary coursework related to the environment. **The major must always be completed in tandem with a second major.** This requirement is unique to the environmental studies major and allows undergraduates the opportunity to both broaden and deepen the focus of their other major with a perspective on the

environment that spans a wide range of topics, and involves varying depths of application.

The major includes experiential learning opportunities via the capstone course and the field requirement, and encourages global interaction through study or internships abroad. With numerous travel abroad possibilities and ongoing access to a large selection of extracurricular events, graduates have countless combinations available to them. The outcome is a solid academic foundation in the study of the environment and access to a network of multidisciplinary problem-solving colleagues.

In today's world, the program prepares students to address modern challenges using interdisciplinary problem-solving approaches, applying both an understanding of, and practical experience beyond, a single academic discipline. Employers purposefully seek individuals with interdisciplinary and international preparation, and environmental studies students are ready to meet that need.

Click here to see a complete list of faculty and staff affiliated with the Nelson Institute (<http://nelson.wisc.edu/people>).

The Nelson Institute also offers two undergraduate certificates:

Environmental Studies Certificate (p. 1163)

Sustainability Certificate (p. 1167)

**Note: Students may complete only one program offered through the Nelson Institute.**

## HOW TO GET IN

## HOW TO DECLARE

Students interested in declaring the environmental studies major should request a major declaration appointment. Information about declaring the major can be found at undergraduate advising (<https://nelson.wisc.edu/undergraduate/advising.php>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## SCHOOL/COLLEGE REQUIREMENTS

The Environmental Studies major is always paired with another major. Please refer to the School/College degree requirements of the other major to learn about degree requirements or consult an advisor.

## REQUIREMENTS FOR THE MAJOR

The environmental studies major provides students with an academically rigorous course sequence that encompasses introductory through advanced understandings of the interdisciplinary field of environmental studies. Environmental studies undergraduates are present in all eight undergraduate schools and colleges. Students must have a declared primary major, and are allowed to overlap a portion of course work from that major for the environmental studies major, making it possible to complete their degree within four years.

- **30 credits in the major as defined below.**
- Declare and complete a primary major. **Students must have a primary major declared before reaching senior standing (86 credits) or the environmental studies major may be canceled.**
- At least 15 credits taken for the environmental studies major must be distinct, and not also meeting minimum requirements in another major.
- Students outside the College of Letters & Science may have to meet additional overlap requirements.

### FOUNDATION (12-16 CREDITS)

**One course from each of the following four areas**, one of which must be at the *intermediate* or *advanced* level. Courses used to meet a requirement within the foundation section cannot also be used in other areas of the curriculum.

#### Environmental Humanities (1 course)

Code	Title	Credits
ENVIR ST 113	Environmental Studies: The Humanistic Perspective	3
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
ENVIR ST/ENGL 153	Literature and the Environment	3
ENVIR ST/ RELIG ST 270	Environment and Religion	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4

**Environmental Social Science (1 course)**

Code	Title	Credits
ENVIR ST 112	Environmental Studies: The Social Perspective	3
ENVIR ST/GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
ENVIR ST/A A E 244	The Environment and the Global Economy	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
ENVIR ST/GEOG 339	Environmental Conservation	4

**Environmental Physical Science (1 course)**

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	4
ENVIR ST/ GEOSCI 106	Environmental Geology	3
PHYSICS 115	Energy	3
ENVIR ST/GEOG 120	Introduction to the Earth System	3
ENVIR ST/ILS 126	Principles of Environmental Science *	4
ENVIR ST/GEOG 127	Physical Systems of the Environment *	5
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3
ENVIR ST 250	Introduction to Sustainability Science	3
SOIL SCI 301	General Soil Science *	4
ENVIR ST/ATM OCN/ GEOG 331	Climatic Environments of the Past	3
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3

\* Counts as a designated field course to fulfill Field Experience.

**Environmental Ecology (1 course)**

Code	Title	Credits
GEOSCI 110	Evolution and Extinction	4
BOTANY 240	Plants and Humans	3
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3
F&W ECOL 401	Physiological Animal Ecology	3
F&W ECOL/BOTANY/ ZOOLOGY 460	General Ecology *	4
F&W ECOL 550	Forest Ecology	3

\* Counts as a designated field course to fulfill Field Experience.

**THEME (15 CREDITS)**

Five courses and 15 credits from any of the areas below. Courses may be concentrated in one area or distributed

across multiple areas. Variable Topics courses (ENVIR ST 400, ENVIR ST 401, ENVIR ST 402, ENVIR ST 404) will count in the Theme requirements, depending on Topical content; due to variability, they are not listed individually under the section headings. Courses applied to the thematic areas cannot also be used in Foundation or Capstone.

**Biodiversity**

Code	Title	Credits
ENVIR ST/ ENTOM 201	Insects and Human Culture-a Survey Course in Entomology	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
F&W ECOL 318	Principles of Wildlife Ecology	3
GEOG/BOTANY 338	Environmental Biogeography	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology	3
ENVIR ST 375	Field Ecology Workshop	3
BOTANY 401	Vascular Flora of Wisconsin	4
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
BOTANY 422	Plant Geography	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics	3
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab *	1
ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
LAND ARC 667	Field Study: Native Plant Communities	3
BOTANY/F&W ECOL/ ZOOLOGY 672	Historical Ecology	2

**Climate**

Code	Title	Credits
A A E 246	Climate Change Economics and Policy	3
GEOG 321	Climatology	3
ENVIR ST/ATM OCN/ GEOG 331	Climatic Environments of the Past	3
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
ATM OCN 425	Global Climate Processes	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems	3
ENVIR ST/ ATM OCN 520	Bioclimatology	3
ATM OCN 522	Tropical Meteorology	3
GEOG/GEOSCI 523	Quaternary Vegetation Dynamics	3
GEOG/GEOSCI 527	The Quaternary Period	3
ENVIR ST/ATM OCN/ GEOG 528	Past Climates and Climatic Change	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3

**Energy**

Code	Title	Credits
E C E 356	Electric Power Processing for Alternative Energy Systems	3
ENVIR ST/BSE 367	Renewable Energy Systems	3
ENVIR ST/N E 373	Nuclear Energy and the Environment	3
ENVIR ST/ GEOSCI 411	Energy Resources	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
M E 461	Thermal Systems Modeling	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3
ENVIR ST/A A E/ CIV ENGR/ URB R PL 561	Energy Markets	3
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3

**Food and Agriculture**

Code	Title	Credits
FOOD SCI 120	Science of Food	3
NUTR SCI 132	Nutrition Today	3
SOC/C&E SOC 222	Food, Culture, and Society	3
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	3
AGRONOMY 300	Cropping Systems	3

ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
CNSR SCI 360	Sustainable and Socially Just Consumption	3
HORT 370	World Vegetable Crops	3
AGRONOMY 377	Cropping Systems of the Tropics	3
FOLKLORE 439	Foodways	3
SOC/C&E SOC 650	Sociology of Agriculture	3

**Health**

Code	Title	Credits
ENVIR ST/ MED HIST 213	Global Environmental Health: An Interdisciplinary Introduction	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
CIV ENGR 422	Elements of Public Health Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
POP HLTH/HIST SCI/ MED HIST 553	International Health and Global Society	3
CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

**History and Culture**

Code	Title	Credits
ENVIR ST/ENGL 153	Literature and the Environment	3
ENVIR ST/ RELIG ST 270	Environment and Religion	3-4
ENVIR ST 307	Literature of the Environment: Speaking for Nature	3
GEOG 319	Environmental Evaluation and Adaptation	3
ENVIR ST/ HISTORY 328	Environmental History of Europe	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
ENVIR ST/GEOG 339	Environmental Conservation	4
ENVIR ST/ HIST SCI 353	History of Ecology	3
ENVIR ST/HIST SCI/ LCA/RELIG ST 356	Islam, Science & Technology, and the Environment	3-4

ENVIR ST/ LEGAL ST 430	Law and Environment: Rights and Resources	3	F&W ECOL/ SOIL SCI 451	Environmental Biogeochemistry	3
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4	ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3
ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3	ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4	LAND ARC/ URB R PL 463	Evolution of American Planning	3
HISTORY/ CHICLA 461	The American West to 1850	3-4	GEOG/URB R PL 505	Urban Spatial Patterns and Theories	3
HISTORY/ CHICLA 462	The American West Since 1850	3-4	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4	ENVIR ST/GEOG 537	Culture and Environment	4
HISTORY/ AMER IND 490	American Indian History	3-4	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
ENVIR ST/GEOG 537	Culture and Environment	4	ENVIR ST/GEOG 557	Development and Environment in Southeast Asia	3
ENVIR ST/GEOG 557	Development and Environment in Southeast Asia	3	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
BOTANY/F&W ECOL/ ZOOLOGY 672	Historical Ecology	2	URB R PL 601	Site Planning	3
<b>Land Use</b>			ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>	LAND ARC 666	Restoration Ecology *	3
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3	LAND ARC 667	Field Study: Native Plant Communities *	3
GEOG/URB R PL 305	Introduction to the City	3-4	LAND ARC 677	Cultural Resource Preservation and Landscape History	3
A A E/ECON/ REAL EST/ URB R PL 306	The Real Estate Process	3	ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	* Counts as a designated field course to fulfill Field Experience.		
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality	3	<b>Policy</b>		
ENVIR ST/GEOG 325	Analysis of the Physical Environment	4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ENVIR ST/GEOG 337	Nature, Power and Society	3	A A E/ENVIR ST 244	The Environment and the Global Economy	3
BOTANY/GEOG 338	Environmental Biogeography	3	POLI SCI 272	Introduction to Public Policy	3-4
ENVIR ST/GEOG 339	Environmental Conservation	4	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG 344	The American West	3	ENVIR ST/ M H R 310	Challenges & Solutions in Business Sustainability	3
BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3	ENVIR ST/GEOG 339	Environmental Conservation	4
CNSR SCI 360	Sustainable and Socially Just Consumption	3	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
ENVIR ST/ GEOSCI 410	Minerals as a Public Problem	3	BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3
F&W ECOL 410	Principles of Silviculture	3	ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3	F&W ECOL 410	Principles of Silviculture	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3	ENVIR ST/ LEGAL ST 430	Law and Environment: Rights and Resources	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4	ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4



ENVR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
M E 466	Air Pollution Effects, Measurements and Control	3
ENVR ST/ F&W ECOL 515	Natural Resources Policy	3
CIV ENGR 522	Hazardous Waste Management	3
ENVR ST/ PHILOS 523	Philosophical Problems of the Biological Sciences	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ENVR ST/GEOG 534	Environmental Governance: Markets, States and Nature	3
ENVR ST 539	Air Resources Science and Policy	3
ENVR ST/C&E SOC/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
ENVR ST/GEOG 557	Development and Environment in Southeast Asia	3
SOC/C&E SOC 573	Community Organization and Change	3
SOIL SCI/CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
SOC/ECON 663	Population and Society	3
ENVR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3

### Water

Code	Title	Credits
ATM OCN/ GEOSCI 105	Survey of Oceanography	3-4
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
CIV ENGR 311	Hydroscience	3
ENVR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources *	2-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
ENVR ST/ LAND ARC 361	Wetlands Ecology *	3
ENVR ST/ ZOOLOGY 510	Ecology of Fishes	3
G L E/GEOSCI 627	Hydrogeology	3-4
G L E/GEOSCI 629	Contaminant Hydrogeology	3

\* Counts as a designated field course to fulfill Field Experience.

## FIELD EXPERIENCE

The field experience in the Environmental Studies major can be met in one of the following ways:

- A designated field course selected from the curriculum above, indicated by an asterisk (\*)
- Participation in an environmental study abroad program where 50% or more of the contact hours are in an out-of-doors situation (see your advisor)
- Participation in an environmental internship or similar experience where 50% or more of the contact hours are in an out-of-doors situation (field form summary **must** be submitted)

## CAPSTONE REQUIREMENT (3 CREDITS)

3 credits from:

Code	Title	Credits
ENVR ST 600	Environmental Studies Major Capstone	3
ENVR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
ENVR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4

In some cases, a 3-credit research project for a minimum that meets specific criteria of an environmental capstone course may be substituted for the Capstone requirement. If you and a faculty member believe that you have a suitable project, please contact [undergrad@nelson.wisc.edu](mailto:undergrad@nelson.wisc.edu) for more information.

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

2.000 GPA in all courses in the major

2.000 GPA on 15 upper-level major credits, taken in residence. Intermediate- and advanced-level courses in the major are considered upper level.

15 credits in the major, taken on campus (at UW–Madison)

Courses in the environmental studies major cannot be taken on a pass/fail basis.

## HONORS IN THE MAJOR

Honors in the Major is not available in Environmental Studies.

## LEARNING OUTCOMES

1. Explain the social and historical processes that impact our current environments. Interpret the meanings, values, and aesthetics that are created, shaped, and revealed as humans interact with and modify the environments they inhabit.
2. Explain ecological processes and fundamental principles of environmental sciences relating to humanity's key environmental challenges of the past, present, and future.
3. Apply perspectives and techniques drawn from a coordinate major to develop interdisciplinary responses to environmental questions.

- Recognize through critical thinking a diversity of viewpoints, ethical commitments, and disciplinary approaches to environmental concerns across various scales from the local to the global.
- Demonstrate excellent reading, writing, communication, and research skills, both individually and in interdisciplinary teams.

## ADVISING AND CAREERS

Environmental studies students are represented in majors all across campus and in most undergraduate schools and colleges. Environmental studies majors should utilize the career office for their home school as appropriate. All students, not just L&S students, can also benefit from the L&S Career Services office.

We encourage our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## FRENCH AND ITALIAN

The programs in French and Italian are multifaceted, with an array of courses in language, culture, film, literature, and professional communication. Students may begin the study of French or Italian in college or continue it at any level for which they are prepared. For French, a placement test is highly recommended. Questions about placement should be addressed to an academic advisor or the SOAR (Student Orientation, Advising, and Registration) foreign language consultant.

## GRADUATE PROGRAMS

Students interested in graduate programs in French and Italian should inquire at the graduate coordinator's office (608 Van Hise, 262-6971) or via the department website (<http://frit.wisc.edu/graduate>).

**Affiliated Graduate Programs.** For information about the PFMP (Professional French Master's Program), see the PFMP website (<http://pfmp.wisc.edu>) or call 262-6971. For information about the Ph.D. in Second Language Acquisition (SLA), see the Language Institute website (<http://languageinstitute.wisc.edu>).

## STUDY ABROAD

For information about study abroad programs, see International Academic Programs (<http://www.wisc.edu/studyabroad>) and programs in the student's school or college.

## DEGREES/MAJORS/CERTIFICATES

- French, B.A. (p. 611)
- French, B.S. (p. 616)
- French, Certificate (p. 621)
- Italian, B.A. (p. 623)
- Italian, B.S. (p. 627)
- Italian, Certificate (p. 631)

## PEOPLE

### FRENCH

Professors Bousquet, Debaisieux, Goodkin, Langer, Miernowski, Songolo, Tochon, Vatan, Vila

Associate Professors El Nossery, Willis Allen

Assistant Professors Armstrong, Dima, Gipson

Faculty Associates Deitz, Irving

Senior Lecturer Miernowska

### ITALIAN

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW–Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org).

The French House is open for lunch, Monday - Friday, for all UW-Madison students. Students wishing to receive a credit for FRENCH 301 or FRENCH 302 must attend 4 times per week on average.

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

### PIAZZA ITALIA

The department sponsors Piazza Italia (<https://www.housing.wisc.edu/residencehalls-lic-languagehouses.htm>), the Italian floor in the Lakeshore residence halls. An Italian graduate student serves as the

resident house fellow, facilitating conversation in Italian and assisting a faculty member in a special 1-credit course on Italian culture. Students studying Italian will find a collegial atmosphere at Piazza Italia, which features special Italian-oriented programming including films, lectures, games, current events material, and regular meals "all'italiana" with guests from the Italian program. Piazza Italia is part of the International Learning Community (ILC) (<http://www.housing.wisc.edu/ilc>), which is dedicated to enriching cross-cultural understanding through a variety of social and educational programs.

## CLUBS AND OTHER ACTIVITIES

### French

French conversation groups and The French Ambassadors (<http://frit.wisc.edu/undergraduate/french/ambassadors>), a student organization, give students the opportunity to converse in French and participate in cultural events. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) and the French House website (<http://uwfrenchhouse.org>) for event details).

### Italian

Caffè Culturale (<https://www.facebook.com/events/1100461163336722>), an Italian conversation group, gives students the opportunity to converse in Italian, while the Italian Club (<https://www.facebook.com/groups/28276254670>) allows students to participate in cultural events on campus and in the community. Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) for event details).

## FRENCH, B.A.

The French program at UW–Madison offers students opportunities for cultural and literary learning about the French-speaking world through dynamic, in-class experiences and extracurricular components such as the French House, an immersion residence hall and cultural center, and the French Ambassador program, a student organization that engages students with French and Francophone cultural events in and around Madison.

Students intending to major in French or complete the certificate enter the program at the appropriate level depending on their language proficiency.

- The French major includes two prerequisite courses (FRENCH 228 and FRENCH 271) followed by 24 credits in French.
- The French certificate includes two core courses (FRENCH 228 and FRENCH 271) followed by three additional courses at the 311 level or above.

The majority of UW–Madison French majors or certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW–Madison sponsored program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult a department advisor.

## INTRODUCTORY AND INTERMEDIATE FRENCH LANGUAGE SEQUENCE

Code	Title	Credits
FRENCH 101	First Semester French	4
FRENCH 102	Second Semester French	4
FRENCH 201	French for Speakers of Other Romance Languages	4
FRENCH 203	Third Semester French	4
FRENCH 204	Fourth Semester French	4
FRENCH 227	Exploring French: Intermediate-Level Course for Entering Students	3
FRENCH 228	Intermediate Language and Culture	3-4

After French 228, courses focus on language, culture, and literature.

## ADVANCED COURSES IN LANGUAGE

Code	Title	Credits
FRENCH 301 & FRENCH 302	Practical French Conversation and Practical French Conversation	2
FRENCH 311	Advanced Composition and Conversation	3
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3
FRENCH/INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Advanced Phonetics	3

## ADVANCED COURSES IN CULTURE

Code	Title	Credits
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3
FRENCH 348	Modernity Studies	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3

## ADVANCED COURSES IN LITERATURE

Code	Title	Credits
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3

FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	6
FRENCH 698	Directed Study	1-6
FRENCH 699	Directed Study	1-6

French courses at the 600 level or above (not including those listed above) are primarily graduate courses and require permission of an undergraduate advisor and the instructor.

## COURSES TAUGHT IN ENGLISH

The following are introductory culture courses taught in English and do not count for credit toward the Major or the Certificate in French:

Code	Title	Credits
FRENCH 211	French Interdisciplinary Studies	3
FRENCH 240	Immigration and Expression	3
FRENCH 248	Ethnic Studies in the French/Francophone World(s)	3
FRENCH/CLASSICS/ HISTORY/ITALIAN/ MIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3

For information on teacher training in French, see the School of Education (p. 1226) section in the Guide.

For courses in French literature in translation, see the Literature in Translation (<http://guide.wisc.edu/courses/littrans>) course listing.

## HOW TO GET IN

Students can declare the French major or certificate at any time.

Students are strongly encouraged to consult with a French advisor as early as possible to discuss various paths available to complete the requirements. Please note that study abroad can make gaining a major or a certificate very manageable.

Roughly 75 percent of French majors also major in at least one other area on campus, from the humanities to the sciences.

For more information, contact a French advisor ([http://frit.wisc.edu/undergraduate/french/academic\\_advising](http://frit.wisc.edu/undergraduate/french/academic_advising)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

- L&S Breadth
- Humanities, 12 credits: 6 of the 12 credits must be in literature
  - Social Sciences, 12 credits
  - Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
	30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

### INTRODUCTORY (PREREQUISITE) COURSES

Code	Title	Credits
FRENCH 228	Intermediate Language and Culture	3-4
FRENCH 271	Introduction to Literary Analysis	3-4
Total Credits		6-8

### TOTAL CREDITS

To complete the French major, **24 credits** are needed beyond the introductory (prerequisite) courses. Please note that Literature in Translation courses cannot be counted toward the major.

### REQUIRED FRENCH/FRANCOPHONE LITERATURE AND CULTURE

Code	Title	Credits
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3
or FRENCH 451	Medieval, Renaissance, and Early Modern Studies	
Total Credits		9

### ADDITIONAL FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE

#### Course list - select one:

Code	Title	Credits
FRENCH/INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 325	Visual Culture in French/Francophone Studies	3
FRENCH 348	Modernity Studies	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH/AFRICAN 440	African/Francophone Film	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4
FRENCH 615	Grammaire avancee	3
FRENCH 616	Social Responsibility in Contemporary French-Language Professional Writing	3
FRENCH 617	Contemporary Skill Set Literature in French	3
FRENCH 618	Career Strategies for the French-Speaking World	2
FRENCH 623	Communication orale en situations professionnelles	3
FRENCH 626	Critical Approaches to French Literature	3
FRENCH 630	Le Siecle des Lumieres	3
FRENCH 631	Litterature Francaise Du XVIIIe Siecle	3
FRENCH 633	Le Roman Au XVIIIe Siecle	3

FRENCH 636	Le Roman Francais 1850-1900	3	FRENCH 616	Social Responsibility in Contemporary French-Language Professional Writing	3
FRENCH 637	La Littérature française du XIXe siècle	3	FRENCH 617	Contemporary Skill Set Literature in French	3
FRENCH 639	La Litterature Du XVIIe Siecle	3	FRENCH 618	Career Strategies for the French-Speaking World	2
FRENCH 640	La Litterature Du XVIIe Siecle	3	FRENCH 623	Communication orale en situations professionnelles	3
FRENCH 642	Culture et sociétés dans le monde francophone	3	FRENCH 626	Critical Approaches to French Literature	3
FRENCH 645	La Litterature Francaise du XVIe Siecle	3	FRENCH 630	Le Siecle des Lumieres	3
FRENCH 646	La Litterature Francaise du XVIe Siecle	3	FRENCH 631	Litterature Francaise Du XVIIIe Siecle	3
FRENCH 647	Le Roman Francais au XXe Siecle	3	FRENCH 633	Le Roman Au XVIIIe Siecle	3
FRENCH 653	Cinéma français/francophone	3	FRENCH 636	Le Roman Francais 1850-1900	3
FRENCH 657	La Poesie Francaise du XIXe Siecle	3	FRENCH 637	La Littérature française du XIXe siècle	3
FRENCH 665	Introduction aux etudes francophones	3	FRENCH 639	La Litterature Du XVIIe Siecle	3
FRENCH 671	La Critique Litteraire	3	FRENCH 640	La Litterature Du XVIIe Siecle	3
FRENCH 681	Senior Honors Thesis	3	FRENCH 642	Culture et sociétés dans le monde francophone	3
FRENCH 682	Senior Honors Thesis	3	FRENCH 645	La Litterature Francaise du XVIe Siecle	3
FRENCH 691	Thesis	2	FRENCH 646	La Litterature Francaise du XVIe Siecle	3
FRENCH 692	Thesis	2	FRENCH 647	Le Roman Francais au XXe Siecle	3

### AT LEAST ONE FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE AT THE 400 LEVEL OR HIGHER

#### Course list - select one:

Code	Title	Credits
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH/AFRICAN 440	African/Francophone Film	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4
FRENCH 615	Grammaire avancee	3

### LANGUAGE COURSE NUMBERED 300 OR ABOVE

#### Course list - select one:

Code	Title	Credits
FRENCH 311	Advanced Composition and Conversation	3
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3
FRENCH/INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Advanced Phonetics	3

## RESIDENCE AND QUALITY OF WORK

1. 2.000 GPA in all FRENCH and major courses
2. 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: FRENCH 300 through FRENCH 699
3. 15 credits in FRENCH taken on campus at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the French Major in consultation with a French undergraduate advisor.

### HONORS IN THE FRENCH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in French, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all FRENCH courses beyond FRENCH 271
- Complete at least 8 credits, taken for Honors, beyond FRENCH 271<sup>1</sup>
- Complete a two-semester Senior Honors Thesis in FRENCH 681 and FRENCH 682, for a total of 6 credits<sup>2</sup>

- <sup>1</sup> Study abroad in France or in another French-speaking country is highly recommended, and the 8 credits taken for Honors can be fulfilled through French courses taken abroad at the appropriate level.
- <sup>2</sup> In certain circumstances (particularly when the student is an Honors candidate in two or more departments), two courses in literature or cultural studies at the 500 or 600 level may be substituted for the Senior Honors Thesis.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

Students completing an undergraduate major in French will be able to:

1. Demonstrate that they understand and can analyze literary and non-literary texts in French representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written French to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written French to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the French-speaking world including how these cultural elements relate to literary and non-literary texts in French (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the French language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the French-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the French language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the French language and culture).

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

### ADVISING RESOURCES

- For information on language proficiency, language placement, and retrocredits, please see the French and Italian department website (<http://frit.wisc.edu/undergraduate/french/placement>) or the Language Institute (<http://languages.wisc.edu/advising>) website.
- For language and international directions advising, please contact Michael Kruse, International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising>).

- For advising on the French Major or Certificate, please contact a French advisor ([http://frit.wisc.edu/undergraduate/french/academic\\_advising](http://frit.wisc.edu/undergraduate/french/academic_advising)).

## PEOPLE

### FRENCH

Professors Bousquet, Debaisieux, Goodkin, Langer, Miernowski, Songolo, Tochon, Vatan, Vila

Associate Professors El Nossery, Willis Allen

Assistant Professors Armstrong, Dima, Gipson

Faculty Associates Deitz, Irving

Senior Lecturer Miernowska

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW–Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org).

The French House is open for lunch, Monday - Friday, for all UW-Madison students. Students wishing to receive a credit for FRENCH 301 or FRENCH 302 must attend 4 times per week on average.

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

### PIAZZA ITALIA

The department sponsors Piazza Italia (<https://www.housing.wisc.edu/residencehalls-ic-ilc-languagehouses.htm>), the Italian floor in the Lakeshore residence halls. An Italian graduate student serves as the resident house fellow, facilitating conversation in Italian and assisting a faculty member in a special 1-credit course on Italian culture. Students studying Italian will find a collegial atmosphere at Piazza Italia, which features special Italian-oriented programming including films, lectures, games, current events material, and regular meals "all'italiana" with guests from the Italian program. Piazza Italia is part of the International Learning Community (ILC) (<http://www.housing.wisc.edu/ilc>), which is dedicated to enriching cross-cultural understanding through a variety of social and educational programs.

## CLUBS AND OTHER ACTIVITIES

### French

French conversation groups and The French Ambassadors (<http://frit.wisc.edu/undergraduate/french/ambassadors>), a student organization, give students the opportunity to converse in French and participate in cultural events. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see

department website (<https://www.frit.wisc.edu>) and the French House website (<http://uwfrenchhouse.org>) for event details).

### Italian

Caffè Culturale (<https://www.facebook.com/events/1100461163336722>), an Italian conversation group, gives students the opportunity to converse in Italian, while the Italian Club (<https://www.facebook.com/groups/28276254670>) allows students to participate in cultural events on campus and in the community. Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) for event details).

## FRENCH, B.S.

The French program at UW–Madison offers students opportunities for cultural and literary learning about the French-speaking world through dynamic, in-class experiences and extracurricular components such as the French House, an immersion residence hall and cultural center, and the French Ambassador program, a student organization that engages students with French and Francophone cultural events in and around Madison.

Students intending to major in French or complete the certificate enter the program at the appropriate level depending on their language proficiency.

- The French major includes two prerequisite courses (FRENCH 228 and FRENCH 271) followed by 24 credits in French.
- The French certificate includes two core courses (FRENCH 228 and FRENCH 271) followed by three additional courses at the 311 level or above.

The majority of UW–Madison French majors or certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW–Madison sponsored program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult a department advisor.

## INTRODUCTORY AND INTERMEDIATE FRENCH LANGUAGE SEQUENCE

Code	Title	Credits
FRENCH 101	First Semester French	4
FRENCH 102	Second Semester French	4
FRENCH 201	French for Speakers of Other Romance Languages	4
FRENCH 203	Third Semester French	4
FRENCH 204	Fourth Semester French	4
FRENCH 227	Exploring French: Intermediate-Level Course for Entering Students	3
FRENCH 228	Intermediate Language and Culture	3-4

**After French 228, courses focus on language, culture, and literature.**



**ADVANCED COURSES IN LANGUAGE**

Code	Title	Credits
FRENCH 301 & FRENCH 302	Practical French Conversation and Practical French Conversation	2
FRENCH 311	Advanced Composition and Conversation	3
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Advanced Phonetics	3

**ADVANCED COURSES IN CULTURE**

Code	Title	Credits
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3
FRENCH 348	Modernity Studies	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies	3

**ADVANCED COURSES IN LITERATURE**

Code	Title	Credits
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty- First Century Literature	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/ Francophone Literary Studies	3
FRENCH 595	Theory and Practice of French/ Francophone Drama	4
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	6
FRENCH 698	Directed Study	1-6

FRENCH 699	Directed Study	1-6
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French courses at the 600 level or above (not including those listed above) are primarily graduate courses and require permission of an undergraduate advisor and the instructor.

**COURSES TAUGHT IN ENGLISH**

The following are introductory culture courses taught in English and do not count for credit toward the Major or the Certificate in French:

Code	Title	Credits
FRENCH 211	French Interdisciplinary Studies	3
FRENCH 240	Immigration and Expression	3
FRENCH 248	Ethnic Studies in the French/ Francophone World(s)	3
FRENCH/CLASSICS/ HISTORY/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3

For information on teacher training in French, see the School of Education (p. 1226) section in the Guide.

For courses in French literature in translation, see the Literature in Translation (<http://guide.wisc.edu/courses/littrans>) course listing.

**HOW TO GET IN**

Students can declare the French major or certificate at any time.

Students are strongly encouraged to consult with a French advisor as early as possible to discuss various paths available to complete the requirements. Please note that study abroad can make gaining a major or a certificate very manageable.

Roughly 75 percent of French majors also major in at least one other area on campus, from the humanities to the sciences.

For more information, contact a French advisor ([http://frit.wisc.edu/undergraduate/french/academic\\_advising](http://frit.wisc.edu/undergraduate/french/academic_advising)).

**REQUIREMENTS****UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

Foreign Language Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR INTRODUCTORY (PREREQUISITE) COURSES

Code	Title	Credits
FRENCH 228	Intermediate Language and Culture	3-4
FRENCH 271	Introduction to Literary Analysis	3-4
Total Credits		6-8

### TOTAL CREDITS

To complete the French major, **24 credits** are needed beyond the introductory (prerequisite) courses. Please note that Literature in Translation courses cannot be counted toward the major.

### REQUIRED FRENCH/FRANCOPHONE LITERATURE AND CULTURE

Code	Title	Credits
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3
or FRENCH 451	Medieval, Renaissance, and Early Modern Studies	
Total Credits		9

### ADDITIONAL FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE

#### Course list - select one:

Code	Title	Credits
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 325	Visual Culture in French/ Francophone Studies	3
FRENCH 348	Modernity Studies	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH/ AFRICAN 440	African/Francophone Film	3
FRENCH 449	Francophone Modernity Studies	3

FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4
FRENCH 615	Grammaire avancée	3
FRENCH 616	Social Responsibility in Contemporary French-Language Professional Writing	3
FRENCH 617	Contemporary Skill Set Literature in French	3
FRENCH 618	Career Strategies for the French-Speaking World	2
FRENCH 623	Communication orale en situations professionnelles	3
FRENCH 626	Critical Approaches to French Literature	3
FRENCH 630	Le Siècle des Lumières	3
FRENCH 631	Littérature Française Du XVIIIe Siècle	3
FRENCH 633	Le Roman Au XVIIIe Siècle	3
FRENCH 636	Le Roman Français 1850-1900	3
FRENCH 637	La Littérature française du XIXe siècle	3
FRENCH 639	La Littérature Du XVIIe Siècle	3
FRENCH 640	La Littérature Du XVIIe Siècle	3
FRENCH 642	Culture et sociétés dans le monde francophone	3
FRENCH 645	La Littérature Française du XVIe Siècle	3
FRENCH 646	La Littérature Française du XVIe Siècle	3
FRENCH 647	Le Roman Français au XXe Siècle	3
FRENCH 653	Cinéma français/francophone	3
FRENCH 657	La Poesie Française du XIXe Siècle	3
FRENCH 665	Introduction aux études francophones	3
FRENCH 671	La Critique Littéraire	3
FRENCH 681	Senior Honors Thesis	3
FRENCH 682	Senior Honors Thesis	3
FRENCH 691	Thesis	2
FRENCH 692	Thesis	2

## AT LEAST ONE FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE AT THE 400 LEVEL OR HIGHER

### Course list - select one:

Code	Title	Credits
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH/AFRICAN 440	African/Francophone Film	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4
FRENCH 615	Grammaire avancée	3
FRENCH 616	Social Responsibility in Contemporary French-Language Professional Writing	3
FRENCH 617	Contemporary Skill Set Literature in French	3
FRENCH 618	Career Strategies for the French-Speaking World	2
FRENCH 623	Communication orale en situations professionnelles	3
FRENCH 626	Critical Approaches to French Literature	3
FRENCH 630	Le Siècle des Lumières	3
FRENCH 631	Littérature Française Du XVIIIe Siècle	3
FRENCH 633	Le Roman Au XVIIIe Siècle	3
FRENCH 636	Le Roman Français 1850-1900	3
FRENCH 637	La Littérature française du XIXe siècle	3
FRENCH 639	La Littérature Du XVIIe Siècle	3
FRENCH 640	La Littérature Du XVIIe Siècle	3
FRENCH 642	Culture et sociétés dans le monde francophone	3
FRENCH 645	La Littérature Française du XVIe Siècle	3
FRENCH 646	La Littérature Française du XVIe Siècle	3
FRENCH 647	Le Roman Français au XXe Siècle	3
FRENCH 653	Cinéma français/francophone	3
FRENCH 657	La Poesie Française du XIXe Siècle	3
FRENCH 665	Introduction aux études francophones	3
FRENCH 671	La Critique Littéraire	3
FRENCH 681	Senior Honors Thesis	3
FRENCH 682	Senior Honors Thesis	3
FRENCH 691	Thesis	2
FRENCH 692	Thesis	2

FRENCH 646	La Litterature Francaise du XVIe Siecle	3
FRENCH 647	Le Roman Francais au XXe Siecle	3
FRENCH 653	Cinéma français/francophone	3
FRENCH 657	La Poesie Francaise du XIXe Siecle	3
FRENCH 665	Introduction aux etudes francophones	3
FRENCH 671	La Critique Litteraire	3
FRENCH 681	Senior Honors Thesis	3
FRENCH 682	Senior Honors Thesis	3
FRENCH 691	Thesis	2
FRENCH 692	Thesis	2

## LANGUAGE COURSE NUMBERED 300 OR ABOVE

### Course list - select one:

Code	Title	Credits
FRENCH 311	Advanced Composition and Conversation	3
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Advanced Phonetics	3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all FRENCH and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: FRENCH 300 through FRENCH 699
- 15 credits in FRENCH taken on campus at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the French Major in consultation with a French undergraduate advisor.

### HONORS IN THE FRENCH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in French, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all FRENCH courses beyond FRENCH 271
- Complete at least 8 credits, taken for Honors, beyond FRENCH 271<sup>1</sup>
- Complete a two-semester Senior Honors Thesis in FRENCH 681 and FRENCH 682, for a total of 6 credits<sup>2</sup>

<sup>1</sup> Study abroad in France or in another French-speaking country is highly recommended, and the 8 credits taken for Honors can be

fulfilled through French courses taken abroad at the appropriate level.

- <sup>2</sup> In certain circumstances (particularly when the student is an Honors candidate in two or more departments), two courses in literature or cultural studies at the 500 or 600 level may be substituted for the Senior Honors Thesis.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

Students completing an undergraduate major in French will be able to:

- Demonstrate that they understand and can analyze literary and non-literary texts in French representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
- Express themselves effectively in spoken and written French to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
- Express themselves effectively in spoken and written French to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
- Recognize and explain cultural artifacts, practices, and perspectives of the French-speaking world including how these cultural elements relate to literary and non-literary texts in French (cultural knowledge).
- Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the French language (linguistic knowledge).
- Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the French-speaking world with those found in their own culture (cross-cultural awareness).
- Engage in a sustained fashion with the French language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the French language and culture).

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

### ADVISING RESOURCES

- For information on language proficiency, language placement, and retrocredits, please see the French and Italian department website (<http://frit.wisc.edu/undergraduate/french/placement>) or the Language Institute (<http://languages.wisc.edu/advising>) website.
- For language and international directions advising, please contact Michael Kruse, International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising>).
- For advising on the French Major or Certificate, please contact a French advisor ([http://frit.wisc.edu/undergraduate/french/academic\\_advising](http://frit.wisc.edu/undergraduate/french/academic_advising)).

## PEOPLE

### FRENCH

Professors Bousquet, Debaisieux, Goodkin, Langer, Miernowski, Songolo, Tochon, Vatan, Vila

Associate Professors El Nossery, Willis Allen

Assistant Professors Armstrong, Dima, Gipson

Faculty Associates Deitz, Irving

Senior Lecturer Miernowska

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW-Madison students with the equivalent of a fourth-semester level of French. At

least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org).

The French House is open for lunch, Monday - Friday, for all UW-Madison students. Students wishing to receive a credit for FRENCH 301 or FRENCH 302 must attend 4 times per week on average.

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

## PIAZZA ITALIA

The department sponsors Piazza Italia (<https://www.housing.wisc.edu/residencehalls-ic-ilc-languagehouses.htm>), the Italian floor in the Lakeshore residence halls. An Italian graduate student serves as the resident house fellow, facilitating conversation in Italian and assisting a faculty member in a special 1-credit course on Italian culture. Students studying Italian will find a collegial atmosphere at Piazza Italia, which features special Italian-oriented programming including films, lectures, games, current events material, and regular meals "all'italiana" with guests from the Italian program. Piazza Italia is part of the International Learning Community (ILC) (<http://www.housing.wisc.edu/ilc>), which is dedicated to enriching cross-cultural understanding through a variety of social and educational programs.

## CLUBS AND OTHER ACTIVITIES

### French

French conversation groups and The French Ambassadors (<http://frit.wisc.edu/undergraduate/french/ambassadors>), a student organization, give students the opportunity to converse in French and participate in cultural events. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) and the French House website (<http://uwfrenchhouse.org>) for event details).

### Italian

Caffè Culturale (<https://www.facebook.com/events/1100461163336722>), an Italian conversation group, gives students the opportunity to converse in Italian, while the Italian Club (<https://www.facebook.com/groups/28276254670>) allows students to participate in cultural events on campus and in the community. Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) for event details).

## FRENCH, CERTIFICATE

The undergraduate certificate in French offers students the opportunity to develop their proficiency in French language and their knowledge of literature and culture in the French-speaking world, thereby complementing their major(s) in other subjects across the university. It also strengthens the applications of students who intend to pursue careers or graduate study in areas where French is useful. The certificate is open to all undergraduate students.

## HOW TO GET IN

Students may declare the undergraduate certificate in French at any time and are encouraged to do so as early as possible, once enrolled as an undergraduate. Please make an appointment with an undergraduate advisor ([http://frit.wisc.edu/undergraduate/french/academic\\_advising](http://frit.wisc.edu/undergraduate/french/academic_advising)) to declare the certificate.

## REQUIREMENTS

The undergraduate certificate in French requires 15 credits of French coursework (or 5 courses) including FRENCH 228, FRENCH 271, and courses at the 311 level and above. Nine of the 15 credits must be taken on the UW–Madison campus. Courses for the certificate cannot be taken on a credit/no credit or pass/fail basis. Retroactive credits may not be applied toward the certificate.

Please note that:

- Up to 6 credits of UW–Madison Study Abroad and 3 credits of transfer coursework may apply to the 15 credits total needed for the certificate.
- Students must maintain a 2.000 cumulative GPA in all courses required for the certificate.

The 15 credits required for the certificate will be distributed as follows:

Code	Title	Credits
<b>Required Core Courses (2 courses)</b>		
FRENCH 228	Intermediate Language and Culture	
FRENCH 271	Introduction to Literary Analysis	
<b>Advanced Language Course (1 course)</b>		
FRENCH 311	Advanced Composition and Conversation	
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	
FRENCH 350	Applied French Language Studies	
FRENCH 590	Advanced Phonetics	
<b>Credits to reach 15 credit minimum for certificate:</b>		
FRENCH 311	Advanced Composition and Conversation	
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	

FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature
FRENCH 322	Introduction to Literature of Modernity
FRENCH 325	Visual Culture in French/ Francophone Studies
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization
FRENCH 348	Modernity Studies
FRENCH 350	Applied French Language Studies
FRENCH 430	Readings in Medieval and Renaissance Literature
FRENCH 431	Readings in Early Modern Literature
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature
FRENCH/ AFRICAN 440	African/Francophone Film
FRENCH 449	Francophone Modernity Studies
FRENCH 451	Medieval, Renaissance, and Early Modern Studies
FRENCH 461	French/Francophone Literary Studies Across the Centuries
FRENCH 462	French/Francophone Cultural Studies Across the Centuries
FRENCH 465	French/Francophone Film
FRENCH 467	Aspects of Contemporary French Literature
FRENCH 472	French/Francophone Literature and Women
FRENCH 555	Colloquium: Research Possibilities in French Studies
FRENCH 567	Undergraduate Seminar in French/ Francophone Literary Studies
FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies
FRENCH 590	Advanced Phonetics
FRENCH 595	Theory and Practice of French/ Francophone Drama
FRENCH 615	Grammaire avancée
FRENCH 616	Social Responsibility in Contemporary French-Language Professional Writing
FRENCH 617	Contemporary Skill Set Literature in French
FRENCH 618	Career Strategies for the French-Speaking World
FRENCH 623	Communication orale en situations professionnelles
FRENCH 626	Critical Approaches to French Literature
FRENCH 630	Le Siècle des Lumières

FRENCH 631	Litterature Francaise Du XVIIIe Siecle
FRENCH 633	Le Roman Au XVIIIe Siecle
FRENCH 636	Le Roman Francais 1850-1900
FRENCH 637	La Littérature française du XIXe siècle
FRENCH 639	La Litterature Du XVIIe Siecle
FRENCH 640	La Litterature Du XVIIe Siecle
FRENCH 642	Culture et sociétés dans le monde francophone
FRENCH 645	La Litterature Francaise du XVIe Siecle
FRENCH 646	La Litterature Francaise du XVIe Siecle
FRENCH 647	Le Roman Francais au XXe Siecle
FRENCH 653	Cinéma français/francophone
FRENCH 657	La Poesie Francaise du XIXe Siecle
FRENCH 665	Introduction aux etudes francophones
FRENCH 671	La Critique Litteraire
FRENCH 681	Senior Honors Thesis
FRENCH 682	Senior Honors Thesis
FRENCH 691	Thesis
FRENCH 692	Thesis
<b>Total</b>	<b>15</b>

Note: For courses taken on campus at the FRENCH 311 level or higher, prerequisites must be met or permission given by the department.

## PEOPLE

### FRENCH

Professors Bousquet, Debaisieux, Goodkin, Langer, Miernowski, Songolo, Tochon, Vatan, Vila

Associate Professors El Nossery, Willis Allen

Assistant Professors Armstrong, Dima, Gipson

Faculty Associates Deitz, Irving

Senior Lecturer Miernowska

## ITALIAN, B.A.

The Italian program at UW–Madison offers students opportunities for growth in the language and for increased cultural fluency through dynamic, in-class learning experiences and multiple extracurricular components such as Piazza Italia (an Italian immersion floor in the Lakeshore residence halls), Caffè Culturale (an Italian conversation group), Italian Club, and Cineteca Italiana (an Italian film club).

- The Italian major includes 24 credits taken beyond ITALIAN 204.
- The Italian certificate includes 2 core courses followed by 3 additional courses beyond ITALIAN 204 for a total of 15 credits.

The majority of UW–Madison Italian majors and certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW–Madison Study Abroad program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult a department advisor.

## INTRODUCTORY AND INTERMEDIATE ITALIAN LANGUAGE SEQUENCE

Code	Title	Credits
ITALIAN 101	First Semester Italian	4
ITALIAN 102	Second Semester Italian	4
ITALIAN 201	Italian for Speakers of Other Romance Languages	4
ITALIAN 203	Third Semester Italian	4
ITALIAN 204	Fourth Semester Italian	4

After Italian 204, courses focus on language, literature, and culture

## ADVANCED LANGUAGE

Code	Title	Credits
ITALIAN 311	Advanced Italian Language	3
ITALIAN 312	Writing Workshop	3
ITALIAN 340	Structures of Italian	3
ITALIAN 423	Corso Di Stilistica Applicata	3

## ADVANCED LITERATURE

Code	Title	Credits
ITALIAN 321	Introduction to Italian Literature	3
ITALIAN 322	Introduction to Italian Literature	3
ITALIAN 450	Special Topics in Italian Literature	3

## INTERMEDIATE/ADVANCED CULTURE

Code	Title	Credits
ITALIAN 230	Modern Italian Culture	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	1
ITALIAN/ COM ARTS 460	Italian Film	3

## 600-LEVEL COURSES

The following courses are open to both graduate and undergraduate students:

Code	Title	Credits
ITALIAN 601	L'Ottocento	3
ITALIAN 621 & ITALIAN 622	Il Settecento and Il Settecento	6
ITALIAN 623	Il Teatro Italiano	3
ITALIAN 631 & ITALIAN 632	Lineamenti Di Letteratura Italiana and Lineamenti Di Letteratura Italiana	6
ITALIAN 635 & ITALIAN 636	Il Romanzo Italiano and Il Romanzo Italiano	6

ITALIAN 637	La Poesia del Novecento	3
ITALIAN 641	Il Seicento: Ribelli, Libertini e Ortodossi	3
ITALIAN 651	Il Rinascimento	3
ITALIAN/ MEDIEVAL 659 & ITALIAN/ MEDIEVAL 660	Dante's Divina Commedia and Dante's Divina Commedia	6
ITALIAN/ MEDIEVAL 671 & ITALIAN/ MEDIEVAL 672	Il Duecento and Il Duecento	6
ITALIAN 681 & ITALIAN 682	Senior Honors Thesis and Senior Honors Thesis	6
ITALIAN 698	Directed Study	1-6
ITALIAN 699	Directed Study	1-6

## COURSES TAUGHT IN ENGLISH

The following are intermediate/advanced culture courses taught in English and count for credit toward the Major or the Certificate in Italian:

Code	Title	Credits
ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City	3-4
ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
ITALIAN/ COM ARTS 460	Italian Film	3

For information on teacher training in Italian, see the School of Education (p. 1226) section in this Guide.

For courses in Italian literature in translation, see Literature in Translation (<http://guide.wisc.edu/courses/littrans>) course listing.

## HOW TO GET IN

Students can declare the Italian major or certificate at any time.

Students are strongly encouraged to consult with an Italian advisor as early as possible to discuss various paths available to complete the requirements. Please note that study abroad can make gaining a major or a certificate very manageable.

Roughly 75 percent of all Italian majors also major in at least one other area on campus, from the humanities to the sciences.

For more information, contact an Italian advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General Education	Requirements
Breadth—Humanities/Literature/Arts:	6 credits
Breadth—Natural Science:	4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
Breadth—Social Studies:	3 credits
Communication Part A & Part B *	
Ethnic Studies *	
Quantitative Reasoning Part A & Part B *	

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Italian majors must complete 24 credits beyond Italian 204. Please note that Literature in Translation courses cannot be counted toward the major.

The 24 credits required for the Italian major will be distributed as follows:

Code	Title	Credits
<b>Required Core Courses</b>		<b>15</b>
ITALIAN 230	Modern Italian Culture	
ITALIAN 311	Advanced Italian Language	
ITALIAN 312	Writing Workshop	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature	
<b>Additional credits to reach 24-credit minimum</b>		<b>9</b>
ITALIAN 340	Structures of Italian	
ITALIAN/CLASSICS 350	Rome: The Changing Shape of the Eternal City	
ITALIAN 423	Corso Di Stilistica Applicata	
ITALIAN/FRENCH/PORTUG/SPANISH 429	Introduction to the Romance Languages	
ITALIAN 450	Special Topics in Italian Literature	
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	
ITALIAN/COM ARTS 460	Italian Film	
ITALIAN 601	L'Ottocento	
ITALIAN 621 & ITALIAN 622	Il Settecento and Il Settecento	
ITALIAN 623	Il Teatro Italiano	
ITALIAN 631 & ITALIAN 632	Lineamenti Di Letteratura Italiana and Lineamenti Di Letteratura Italiana	
ITALIAN 635 & ITALIAN 636	Il Romanzo Italiano and Il Romanzo Italiano	
ITALIAN 637	La Poesia del Novecento	

ITALIAN 641	Il Seicento: Ribelli, Libertini e Ortodossi
ITALIAN 651	Il Rinascimento
ITALIAN/MEDIEVAL 659 & ITALIAN/MEDIEVAL 660	Dante's Divina Commedia and Dante's Divina Commedia
ITALIAN/MEDIEVAL 671 & ITALIAN/MEDIEVAL 672	Il Duecento and Il Duecento
ITALIAN 698	Directed Study
ITALIAN 699	Directed Study

Total Credits 24

## RESIDENCY AND QUALITY OF WORK

- 2.000 GPA in all ITALIAN and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence: ITALIAN 300 through ITALIAN 699
- 15 credits in ITALIAN taken on campus at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Italian Major in consultation with the Italian undergraduate advisor.

### HONORS IN THE ITALIAN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Italian, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ITALIAN courses and courses counting toward the major
- Complete at least 15 credits, taken for Honors, beyond ITALIAN 204, earning individual grades of B or better in each course. 6 of those credits must come from completing a two-semester Senior Honors Thesis in ITALIAN 681 Senior Honors Thesis and ITALIAN 682 Senior Honors Thesis.<sup>1</sup>

<sup>1</sup> Students may be allowed to substitute two semesters of literature course work at the 600 level for the Senior Honors Thesis. See the undergraduate advisor in Italian.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

Students completing an undergraduate major in Italian will be able to:

1. Demonstrate that they understand and can analyze literary and non-literary texts in Italian representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written Italian to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written Italian to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the Italian-speaking world including how these cultural elements relate to literary and non-literary texts in Italian (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the Italian language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the Italian-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the Italian language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the Italian language and culture).

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)

- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## ADVISING RESOURCES

- For advising on language proficiency, language placement, and retrocredits, please see the French and Italian department website ([http://frit.wisc.edu/undergraduate/italian/placement\\_permissions](http://frit.wisc.edu/undergraduate/italian/placement_permissions)) or the Language Institute (<http://languages.wisc.edu/advising>) website.
- For language and international directions advising, please contact Michael Kruse, International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising>).
- For advising on the Italian Major or Certificate, please contact an Italian advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)).

## PEOPLE

### ITALIAN

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic.

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW–Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org).

The French House is open for lunch, Monday - Friday, for all UW-Madison students. Students wishing to receive a credit for FRENCH 301 or FRENCH 302 must attend 4 times per week on average.

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

### PIAZZA ITALIA

The department sponsors Piazza Italia (<https://www.housing.wisc.edu/residencehalls-lic-ilc-languagehouses.htm>), the Italian floor in the Lakeshore residence halls. An Italian graduate student serves as the resident house fellow, facilitating conversation in Italian and assisting a faculty member in a special 1-credit course on Italian culture. Students studying Italian will find a collegial atmosphere at Piazza Italia, which features special Italian-oriented programming including films, lectures, games, current events material, and regular meals "all'italiana" with

guests from the Italian program. Piazza Italia is part of the International Learning Community (ILC) (<http://www.housing.wisc.edu/ilc>), which is dedicated to enriching cross-cultural understanding through a variety of social and educational programs.

## CLUBS AND OTHER ACTIVITIES

### French

French conversation groups and The French Ambassadors (<http://frit.wisc.edu/undergraduate/french/ambassadors>), a student organization, give students the opportunity to converse in French and participate in cultural events. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) and the French House website (<http://uwfrenchhouse.org>) for event details).

### Italian

Caffè Culturale (<https://www.facebook.com/events/1100461163336722>), an Italian conversation group, gives students the opportunity to converse in Italian, while the Italian Club (<https://www.facebook.com/groups/28276254670>) allows students to participate in cultural events on campus and in the community. Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) for event details).

## ITALIAN, B.S.

The Italian program at UW–Madison offers students opportunities for growth in the language and for increased cultural fluency through dynamic, in-class learning experiences and multiple extracurricular components such as Piazza Italia (an Italian immersion floor in the Lakeshore residence halls), Caffè Culturale (an Italian conversation group), Italian Club, and Cineteca Italiana (an Italian film club).

- The Italian major includes 24 credits taken beyond ITALIAN 204.
- The Italian certificate includes 2 core courses followed by 3 additional courses beyond ITALIAN 204 for a total of 15 credits.

The majority of UW–Madison Italian majors and certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW–Madison Study Abroad program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult a department advisor.

## INTRODUCTORY AND INTERMEDIATE ITALIAN LANGUAGE SEQUENCE

Code	Title	Credits
ITALIAN 101	First Semester Italian	4
ITALIAN 102	Second Semester Italian	4
ITALIAN 201	Italian for Speakers of Other Romance Languages	4
ITALIAN 203	Third Semester Italian	4
ITALIAN 204	Fourth Semester Italian	4

After Italian 204, courses focus on language, literature, and culture

## ADVANCED LANGUAGE

Code	Title	Credits
ITALIAN 311	Advanced Italian Language	3
ITALIAN 312	Writing Workshop	3
ITALIAN 340	Structures of Italian	3
ITALIAN 423	Corso Di Stilistica Applicata	3

## ADVANCED LITERATURE

Code	Title	Credits
ITALIAN 321	Introduction to Italian Literature	3
ITALIAN 322	Introduction to Italian Literature	3
ITALIAN 450	Special Topics in Italian Literature	3

## INTERMEDIATE/ADVANCED CULTURE

Code	Title	Credits
ITALIAN 230	Modern Italian Culture	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	1
ITALIAN/ COM ARTS 460	Italian Film	3

## 600-LEVEL COURSES

The following courses are open to both graduate and undergraduate students:

Code	Title	Credits
ITALIAN 601	L'Ottocento	3
ITALIAN 621 & ITALIAN 622	Il Settecento and Il Settecento	6
ITALIAN 623	Il Teatro Italiano	3
ITALIAN 631 & ITALIAN 632	Lineamenti Di Letteratura Italiana and Lineamenti Di Letteratura Italiana	6
ITALIAN 635 & ITALIAN 636	Il Romanzo Italiano and Il Romanzo Italiano	6
ITALIAN 637	La Poesia del Novecento	3
ITALIAN 641	Il Seicento: Ribelli, Libertini e Ortodossi	3
ITALIAN 651	Il Rinascimento	3
ITALIAN/ MIEVEAL 659 & ITALIAN/ MIEVEAL 660	Dante's Divina Commedia and Dante's Divina Commedia	6
ITALIAN/ MIEVEAL 671 & ITALIAN/ MIEVEAL 672	Il Duecento and Il Duecento	6
ITALIAN 681 & ITALIAN 682	Senior Honors Thesis and Senior Honors Thesis	6
ITALIAN 698	Directed Study	1-6
ITALIAN 699	Directed Study	1-6

## COURSES TAUGHT IN ENGLISH

The following are intermediate/advanced culture courses taught in English and count for credit toward the Major or the Certificate in Italian:

Code	Title	Credits
ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City	3-4
ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
ITALIAN/ COM ARTS 460	Italian Film	3

For information on teacher training in Italian, see the School of Education (p. 1226) section in this Guide.

For courses in Italian literature in translation, see Literature in Translation (<http://guide.wisc.edu/courses/littrans>) course listing.

## HOW TO GET IN

Students can declare the Italian major or certificate at any time.

Students are strongly encouraged to consult with an Italian advisor as early as possible to discuss various paths available to complete the requirements. Please note that study abroad can make gaining a major or a certificate very manageable.

Roughly 75 percent of all Italian majors also major in at least one other area on campus, from the humanities to the sciences.

For more information, contact an Italian advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Italian majors must complete 24 credits beyond Italian 204. Please note that Literature in Translation courses cannot be counted toward the major.

The 24 credits required for the Italian major will be distributed as follows:

Code	Title	Credits
<b>Required Core Courses</b>		<b>15</b>
ITALIAN 230	Modern Italian Culture	
ITALIAN 311	Advanced Italian Language	
ITALIAN 312	Writing Workshop	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature	
<b>Additional credits to reach 24-credit minimum</b>		<b>9</b>
ITALIAN 340	Structures of Italian	
ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City	
ITALIAN 423	Corso Di Stilistica Applicata	
ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	
ITALIAN 450	Special Topics in Italian Literature	
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	
ITALIAN/ COM ARTS 460	Italian Film	
ITALIAN 601	L'Ottocento	
ITALIAN 621 & ITALIAN 622	Il Settecento and Il Settecento	
ITALIAN 623	Il Teatro Italiano	
ITALIAN 631 & ITALIAN 632	Lineamenti Di Letteratura Italiana and Lineamenti Di Letteratura Italiana	
ITALIAN 635 & ITALIAN 636	Il Romanzo Italiano and Il Romanzo Italiano	
ITALIAN 637	La Poesia del Novecento	
ITALIAN 641	Il Seicento: Ribelli, Libertini e Ortodossi	
ITALIAN 651	Il Rinascimento	
ITALIAN/ MEDIÉVAL 659 & ITALIAN/ MEDIÉVAL 660	Dante's Divina Commedia and Dante's Divina Commedia	
ITALIAN/ MEDIÉVAL 671 & ITALIAN/ MEDIÉVAL 672	Il Duecento and Il Duecento	

ITALIAN 698	Directed Study	
ITALIAN 699	Directed Study	
Total Credits		24

## RESIDENCY AND QUALITY OF WORK

- 2.000 GPA in all ITALIAN and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence: ITALIAN 300 through ITALIAN 699
- 15 credits in ITALIAN taken on campus at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Italian Major in consultation with the Italian undergraduate advisor.

### HONORS IN THE ITALIAN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Italian, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all ITALIAN courses and courses counting toward the major
- Complete at least 15 credits, taken for Honors, beyond ITALIAN 204, earning individual grades of B or better in each course. 6 of those credits must come from completing a two-semester Senior Honors Thesis in ITALIAN 681 Senior Honors Thesis and ITALIAN 682 Senior Honors Thesis.<sup>1</sup>

<sup>1</sup> Students may be allowed to substitute two semesters of literature course work at the 600 level for the Senior Honors Thesis. See the undergraduate advisor in Italian.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

Students completing an undergraduate major in Italian will be able to:

1. Demonstrate that they understand and can analyze literary and non-literary texts in Italian representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written Italian to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written Italian to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the Italian-speaking world including how these cultural elements relate to literary and non-literary texts in Italian (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the Italian language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the Italian-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the Italian language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the Italian language and culture).

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

### ADVISING RESOURCES

- For advising on language proficiency, language placement, and retrocredits, please see the French and Italian department website (<http://frit.wisc.edu/undergraduate/italian/>

placement\_permissions) or the Language Institute (<http://languages.wisc.edu/advising>) website.

- For language and international directions advising, please contact Michael Kruse, International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising>).
- For advising on the Italian Major or Certificate, please contact an Italian advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)).

## PEOPLE

### ITALIAN

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic.

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW–Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org).

The French House is open for lunch, Monday - Friday, for all UW-Madison students. Students wishing to receive a credit for FRENCH 301 or FRENCH 302 must attend 4 times per week on average.

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

### PIAZZA ITALIA

The department sponsors Piazza Italia (<https://www.housing.wisc.edu/residencehalls-lic-lic-languagehouses.htm>), the Italian floor in the Lakeshore residence halls. An Italian graduate student serves as the resident house fellow, facilitating conversation in Italian and assisting a faculty member in a special 1-credit course on Italian culture. Students studying Italian will find a collegial atmosphere at Piazza Italia, which features special Italian-oriented programming including films, lectures, games, current events material, and regular meals "all'italiana" with guests from the Italian program. Piazza Italia is part of the International Learning Community (ILC) (<http://www.housing.wisc.edu/ilc>), which is dedicated to enriching cross-cultural understanding through a variety of social and educational programs.

## CLUBS AND OTHER ACTIVITIES

### French

French conversation groups and The French Ambassadors (<http://frit.wisc.edu/undergraduate/french/ambassadors>), a student organization, give students the opportunity to converse in French and participate in cultural events. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see

department website (<https://www.frit.wisc.edu>) and the French House website (<http://uwfrenchhouse.org>) for event details).

### Italian

Caffè Culturale (<https://www.facebook.com/events/1100461163336722>), an Italian conversation group, gives students the opportunity to converse in Italian, while the Italian Club (<https://www.facebook.com/groups/28276254670>) allows students to participate in cultural events on campus and in the community. Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu>) for event details).

## ITALIAN, CERTIFICATE

The undergraduate certificate in Italian offers students the opportunity to develop their proficiency in Italian language and their knowledge of literature and culture in the Italian-speaking world. Advanced courses (300 and 400 level) will allow students to build on the foundation developed in 200 level courses by choosing from a range of courses in Italian literature, linguistics, cinema, culture, and professional communication. The certificate also strengthens the applications of students who intend to pursue careers or graduate study in areas where Italian is useful. The undergraduate certificate in Italian is open to all undergraduate students.

### HOW TO GET IN

Students may declare the undergraduate certificate in Italian at any time and are encouraged to do so as early as possible, once enrolled as an undergraduate. Please make an appointment with an undergraduate advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)) to declare the certificate.

### REQUIREMENTS

#### 15 CREDITS, TO INCLUDE: <sup>1</sup>

Code	Title	Credits
<b>Foundation (two courses):</b>		<b>6</b>
ITALIAN 311	Advanced Italian Language	
ITALIAN 312	Writing Workshop	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature	
<b>Electives</b>		<b>9</b>
ITALIAN 230	Modern Italian Culture	
ITALIAN 311	Advanced Italian Language	
ITALIAN 312	Writing Workshop	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature	
ITALIAN 340	Structures of Italian	
ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City	
ITALIAN 423	Corso Di Stilistica Applicata	

ITALIAN/FRENCH/ Introduction to the Romance  
PORTUG/ Languages  
SPANISH 429

ITALIAN 450 Special Topics in Italian Literature

ITALIAN 452 Special Topics in Italian Studies:  
Culture, Film, Language

ITALIAN 453 Special Topics in Italian Studies:  
Culture, Film, Language

ITALIAN/  
COM ARTS 460 Italian Film

*One (and only one) course may be chosen from:*

LITTRANS 213 Love and Sex in Italian Comedy

LITTRANS/  
MEDIEVAL/  
RELIG ST 253 Literature in Translation: Dante's  
Divine Comedy

LITTRANS 254 In Translation: Lit of Modern Italy-  
Existentialism, Fascism, Resistance

LITTRANS 255 Literature in Translation:  
Boccaccio's Decameron-The Human  
Comedy

LITTRANS 256 Lit in Translation: Images of the  
Individual in the Italian Renaissance

LITTRANS 260 Italy and the Invention of America:  
from Columbus to World War II

LITTRANS 400 Machiavelli and His World

LITTRANS 410 In Translation: Special Topics in  
Italian Literature

Total Credits

15

### RESIDENCE AND QUALITY OF WORK

9 credits taken on the UW-Madison campus

2.000 GPA on all courses taken in the certificate

<sup>1</sup> Courses taken pass/fail are not eligible for the certificate.

### ADVISING AND CAREERS

Please make an appointment with an undergraduate advisor ([http://frit.wisc.edu/undergraduate/italian/academic\\_advising](http://frit.wisc.edu/undergraduate/italian/academic_advising)) to get academic advising for the certificate.

### PEOPLE

#### ITALIAN

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic.

## GENDER AND WOMEN'S STUDIES

The gender and women's studies major and certificate provide a unique background for students seeking to analyze gender and other vectors of inequality, both historically and in contemporary society, as reflected through texts, social practices, and social institutions in the U.S. and abroad. Our graduates have gone on to provide this kind of analysis in fields like health policy, immigration law, social work, reproductive justice,

educational administration, employment policy, medicine, architectural design, and media production.

The curriculum reflects the interdisciplinary nature of gender and women's studies, offering to all students an opportunity to study gender and women in such areas as literature, history, anthropology, sociology, education, law, biology, psychology, philosophy, political science, economics, and the arts. Department courses have been designed to fulfill breadth requirements in the appropriate divisions.

The **undergraduate major** is a 30-credit program and the **certificate** is a 15-credit program. The interdisciplinary nature of gender and women's studies lends itself to working well with and complementing many other programs and plans across campus.

## DEGREES/MAJORS/CERTIFICATES

- Gender and Women's Studies, B.A. (p. 632)
- Gender and Women's Studies, B.S. (p. 639)
- Gender and Women's Studies, Certificate (p. 646)
- LGBTQ+ Studies, Certificate (p. 648)

## PEOPLE

### FACULTY

Professors: Finn Enke (<https://womenstudies.wisc.edu/professional-pages/enke.htm>), Susan Friedman (<https://womenstudies.wisc.edu/professional-pages/friedman.htm>), Janet Hyde (<https://womenstudies.wisc.edu/professional-pages/hyde.htm>), Maria Lepowsky (<https://womenstudies.wisc.edu/professional-pages/lepowsky.htm>), Myra Marx Ferree (<https://womenstudies.wisc.edu/professional-pages/ferree.htm>), Aili Mari Tripp (<https://womenstudies.wisc.edu/professional-pages/tripp.htm>)

Associate and Assistant Professors: Christine Garlough (<https://womenstudies.wisc.edu/professional-pages/garlough.htm>), Jenny Higgins (<https://jennyhiggins.net>), Judith Houck (<https://womenstudies.wisc.edu/professional-pages/houck.htm>), Pernille Ipsen (<https://womenstudies.wisc.edu/professional-pages/ipsen.htm>), Ellen Samuels (<https://womenstudies.wisc.edu/professional-pages/samuels.htm>), Keisha Lindsay (<https://womenstudies.wisc.edu/professional-pages/lindsay.htm>)

Faculty Affiliates: See the GWS Faculty Affiliates (<https://womenstudies.wisc.edu/affiliates.htm>) for more information about instructors on campus who are engaged in feminist-inspired teaching and research.

### LECTURERS AND TEACHING ASSISTANTS

See the current semester's directory (<https://womenstudies.wisc.edu/lecturers-ta.htm>) of GWS lecturers and teaching assistants.

### UNDERGRADUATE STUDENT SERVICES

Academic Advising: Susan Nelson (<https://womenstudies.wisc.edu/undergrad-advising.htm>)

Enrollment Inquiries: Diane Walton (<https://womenstudies.wisc.edu/staff.htm>)

Curricular Planning: Nina Valeo Cooke (<https://womenstudies.wisc.edu/professional-pages/cooke.html>)

## GENDER AND WOMEN'S STUDIES, B.A.

The gender and women's studies major and certificate provide a unique background for students seeking to analyze gender and other vectors of inequality, both historically and in contemporary society, as reflected through texts, social practices, and social institutions in the U.S. and abroad. Our graduates have gone on to provide this kind of analysis in fields like health policy, immigration law, social work, reproductive justice, educational administration, employment policy, medicine, architectural design, and media production.

The curriculum reflects the interdisciplinary nature of gender and women's studies, offering to all students an opportunity to study gender and women in such areas as literature, history, anthropology, sociology, education, law, biology, psychology, philosophy, political science, economics, and the arts. Department courses have been designed to fulfill breadth requirements in the appropriate divisions.

The **undergraduate major** is a 30-credit program and the **certificate** is a 15-credit program. The interdisciplinary nature of gender and women's studies lends itself to working well with and complementing many other programs and plans across campus.

## HOW TO GET IN

### APPLICATION

To become a gender and women's studies major, students must first complete GEN&WS 101 Gender, Women, and Cultural Representation, GEN&WS 102 Gender, Women, and Society in Global Perspective, **OR** GEN&WS 103 Women and Their Bodies in Health and Disease with a grade of B or better. Then they must declare their intention to complete the gender and women's studies major with the undergraduate advisor (<https://womenstudies.wisc.edu/undergrad-advising.htm>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.



**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

**BACHELOR OF ARTS DEGREE REQUIREMENTS****Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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**NON–L&S STUDENTS PURSUING AN L&S MAJOR**

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

**REQUIREMENTS FOR THE MAJOR**

Majors in gender and women's studies are required to take foundational work in gender and women's studies, courses reflecting each of four approaches to knowledge (humanities, social science, theory, and biological or health sciences), one course from three of four issue areas (sexuality, disability and embodiment, race/ethnicity, and global), and a capstone seminar or thesis.

All majors complete a minimum of 30 credits in GEN&WS including: <sup>1</sup>

**INTRODUCTORY GEN&WS**

Code	Title	Credits
GEN&WS 101	Gender, Women, and Cultural Representation (only one of these courses may count toward the major)	3
or GEN&WS 102	Gender, Women, and Society in Global Perspective	
GEN&WS 103	Women and Their Bodies in Health and Disease	3
Total Credits		6

**APPROACHES <sup>2</sup>**

1 course from each area:

**Biology and Health**

Explore health as both a physiological and a socio#cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.

Code	Title	Credits
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3
GEN&WS 530	Biology and Gender	3
GEN&WS/HIST SCI/ MED HIST 531	Women and Health in American History	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Women and Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3

GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
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### Humanities

Engage with humanities-based theories, content areas, and methodologies as they relate to gender and women's studies.

These include, but are not limited to, critical text analysis, discourse analysis, historical approaches and archival work, media studies, ethnography, and digital humanities. (GEN&WS courses with H, L or Z designations)

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/ LITTRANS 205	Women in Russian Literature in Translation	3-4
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS/ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ENGL 250	Women in Literature	3
GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities	1-3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	3-4
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS/ CLASSICS 351	Gender and Sexuality in the Classical World	3-4
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS/ THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	3
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3

GEN&WS/ENGL 419	Gender and Language	3
GEN&WS/ AMER IND/ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 442	Lesbian Culture	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS/ENGL 545	Feminist Theory and Women's Writing in English	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3

### Social Science

Engage with social-science-based theories, content areas, and methodologies as they relate to gender and women's studies.

These include, but are not limited to, scientific and clinical research, statistical analysis, mixed-methods approaches, and theories of social change. (GEN&WS courses with S or Z designations)

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/C&E SOC/ SOC 215	Gender and Work in Rural America	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3

GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	3-4
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women in History	3-4
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS/ ED POL 560	Gender and Education	3
GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3
GEN&WS/SOC 611	Gender, Science and Technology	3

### Feminist Theory

Explore feminist theoretical approaches, both national and international.

Code	Title	Credits
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3

GEN&WS 547	Theorizing Intersectionality	3
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## ISSUE AREAS <sup>2</sup>

### Race/Ethnicity

Explore the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference. These courses may explore the construction and deployment of race/ethnicity anywhere in the world.

Code	Title	Credits
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS/ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS/ AMER IND/ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3

GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3
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### Global

Explore aspects of gender in a comparative national frame. These classes may focus on the process of globalization or they may focus on gendered concerns in at least two national contexts.

Code	Title	Credits
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS/ URB R PL 644	International Development and Gender	3
GEN&WS 661	Global Internship in Gender and Women's Studies	1-6

### Sexuality

Explore "sexuality" under the assumption that sexuality is not a natural or self-evident attribute or category, these courses demonstrate how sexuality has come to assume a variety of culturally specific but often contested meanings.

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ CLASSICS 351	Gender and Sexuality in the Classical World	3-4
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS/ENGL 419	Gender and Language	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3

GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3

### Disability & Embodiment

Examine the creation and evolution of different categories of embodiment and the experience of living through and as bodies. These courses focus on gender and disability, exploring disability as a social category, a medical realm, a political identity, an analytical approach, and a lived experience.

Code	Title	Credits
GEN&WS 343	Queer Bodies	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 445	The Body in Theory	3

### CAPSTONE

Code	Title	Credits
<b>Capstone course or Thesis Sequence:</b>		3-6
GEN&WS 640	Capstone Seminar in Gender and Women's Studies	
GEN&WS 681 & GEN&WS 682	Senior Honors Thesis I and Senior Honors Thesis II	
GEN&WS 691 & GEN&WS 682	Senior Thesis I and Senior Honors Thesis II	
Total Credits		3-6

### RESIDENCE & QUALITY OF WORK

2.000 GPA in all GEN&WS and major courses

2.000 GPA on 15 upper-level major credits, taken in Residence <sup>1</sup>

15 credits in GEN&WS, taken on the UW–Madison campus

### NOTES

<sup>1</sup> A maximum three courses designated as Elementary level may apply in the major, overall. Directed Study courses typically do not count toward the minimum credits required in the major.

<sup>2</sup> A single course may apply to **both** Approach and Issues but a course may **not** apply to more than one Approach and it may not more than one Issue area.

<sup>3</sup> Courses in GEN&WS and approved for the major that carry the Intermediate- or Advanced-level designation are considered upper level in the major.

### RESEARCH IN THE MAJOR

Students interested in the doing research in Gender & Women's Studies are encouraged to incorporate coursework outside of Gender and Women's Studies and develop a thesis (GEN&WS 691-GEN&WS 692 or GEN&WS 681-GEN&WS 682) in consultation with a member of the faculty. The thesis sequence would serve as the Capstone requirement in the

major. In this case, the student may still take GEN&WS 640 Capstone Seminar in Gender and Women's Studies as an elective in the major.

## HONORS IN THE MAJOR

To declare Honors in the Major in Gender and Women's Studies, students must submit a letter of application to the undergraduate advisor prior to enrollment in GEN&WS 681 Senior Honors Thesis I. The letter should include:

- A list of all planned and declared degrees, major and certificate programs
- Area(s) of research interest within gender and women's studies and ideas for an Senior Honors Thesis
- A letter from a faculty member agreeing to supervise the thesis project

## HONORS IN THE GENDER AND WOMEN'S STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Gender and Women's Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEN&WS courses, and all courses accepted in the major
- Complete at least 2 courses, for a total of 6 or more credits, taken for Honors in GEN&WS
- Complete a two-semester Senior Honors Thesis in GEN&WS 681 Senior Honors Thesis I and GEN&WS 682 Senior Honors Thesis II, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. **Gender #** Understand the concept of gender as an identity and an institution along its multiple dimensions (cultural, social, political, economic) and how gender in forms power relations.

2. **Intersectionality #** Recognize how gender intersects with other axes of inequality, such as race, class, disability status, sexuality, gender expression, nationality, geography and age. Identify the difference between intersectional and universalist understandings of gender.
3. **Feminist theory #** Apply feminist theoretical approaches, both national and international.
4. **Class #** Recognize the role of economic inequalities in creating material and cultural differences in the US and other national contexts and their gendered implications.
5. **Race/Ethnicity #** Understand the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference and its relationship to gender.
6. **Global Processes #** Appreciate historical, political, cultural and socio-economic influences on gender relations in global context. Understand global dimensions of gender inequality, including hierarchies among women within and across nations. Identify gendered dynamics of globalization in historical or contemporary contexts.
7. **Sexuality #** Understand that sexuality is not a natural or self-evident attribute or category and that sexuality assumes a variety of culturally specific and contested meanings.
8. **Disability and Embodiment #** Understand the creation and evolution of different categories of embodiment and the experience of living through and as bodies.
9. **Health and Science #** Identify that health is both a physiological and a socio-cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.
10. **Contemporary and Historical Issues** - Gain familiarity with a variety of issue areas in which gender is important, both historically and today, in national and transnational spheres. These include but are not limited to: health, the body, science, politics, citizenship, feminism, activism, labor, history, media, language, literature and the arts.
11. **Problem solving #** Identify important historical and contemporary issues relating to gender and women's studies, evaluate responses to them, and adapt the knowledge gained through this process to everyday situations.
12. **Research and inquiry #** Identify a problem related to gender and women's studies. Produce or locate resources and learn to build a research agenda. Read broadly in order to develop well-focused projects, using primary and secondary sources. Delineate key points in scholarly articles and respond to them. Use different modes of research, including empirical methods, scholarly literature, and theoretical and artistic engagement. Develop advanced library skills tailored to specific research projects, including facility with electronic databases, bibliographic reference materials, archival documents, and image and sound repositories. Evaluate resources for their reliability.
13. **Interdisciplinarity #** Engage in interdisciplinary inquiry and research and understand the strengths and limits of interdisciplinarity.
14. **Critical thinking #** Be able to perform critical thinking along four dimensions: critical analysis, in which one can identify and evaluate arguments, rhetorical styles, synthesize ideas, and develop well-substantiated, coherent, and concise arguments; logical reasoning, in which one can identify and follow a logical sequence or argument through to its end and recognize faulty reasoning or premature closure; abstract thinking, in which one can generalize for a specific

purpose and/or in a way that clarifies and heightens understanding of major issues at stake, or identifies the essential or most relevant elements of a concept, event, object, text, etc; argumentation, in which one can marshal appropriate and relevant evidence in order to develop a clear claim or stance using specific rhetorical approaches.

15. **Writing #** Express ideas effectively in written form, develop sufficient evidence for arguments, and tailor arguments to audience and context.
16. **Oral Communication #** Express ideas effectively in verbal form, tailoring arguments and presentation styles to audience and context.
17. **Collaboration -#** Work collectively, take initiative, offer and receive constructive criticism, exchange ideas and creatively work together toward a common endeavor.
18. **Creativity #** Bring together a variety of texts, ideas, theoretical, political, empirical, aesthetic and rhetorical approaches in order to respond imaginatively to a social, political or intellectual issue.
19. **Career skills -** Create the building blocks for a career after graduation with all of the above skills.
20. **Critical self#awareness -** Demonstrate self#reflexivity about one's ideas and social and political positions.
21. **Critical social awareness #** Engage critically with social institutions that influence our personal and social lives, such as media, politics, the healthcare system, the economy and education.
22. **Ethics -#** Apply ethical frameworks, informed by the study of gender, feminism and social justice movements, to address unequal treatment or advantage in a variety of contexts.
23. **Engaged Practices -#** Link theory with practice. Recognize and advocate for social change at the local, national or transnational level.
24. **Advanced accomplishment #** Demonstrate synthesis of skills acquired and performed in advanced coursework.
25. **Application beyond the Gender and Women's Studies classroom -** Apply key Gender and Women's Studies concepts to one's life, activist projects, and to non#Gender and Women's Studies academic coursework.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

#### UNDERGRADUATE ADVISING IN GENDER AND WOMEN'S STUDIES AND LGBT STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/UNDERGRAD-ADVISING.HTM](https://womenstudies.wisc.edu/undergrad-advicing.htm))

Connecting and working with your gender and women's studies undergraduate advisor as early as possible helps you create a meaningful course plan and stay on track as you complete your degree requirements.

Our undergraduate advisor is available to consult on a variety of topics including: program declaration, adding an additional major or certificate, course planning and four-year graduation plans, volunteer and internship opportunities, graduate school, and career development.

#### INTERNSHIP PROGRAM IN GENDER AND WOMEN'S STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/INTERNSHIP.HTM](https://womenstudies.wisc.edu/internship.htm))

Applied learning through internships within the field of gender and women's studies allows students the opportunity to connect the classroom to the community and put theory into practice. Recognizing the power and importance of experiential and service learning, we proudly offer both local and global internship opportunities in our department.

Our internship program is designed to provide students with opportunities for learning and working in organizations and settings that connect their coursework in gender and women's studies to specific issues in community settings. The connected internship seminar provides a venue for students to engage deeply in feminist-based work and reflection while thinking critically about participating as feminists in activism and professional settings.

Internship courses in GEN&WS:

Code	Title	Credits
GEN&WS 660	Internship in Gender and Women's Studies	6
GEN&WS 661	Global Internship in Gender and Women's Studies	1-6

#### CAREER DEVELOPMENT IN GENDER AND WOMEN'S STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/CAREERS.HTM](https://womenstudies.wisc.edu/careers.htm))

The Department of Gender and Women's Studies is committed to helping our students understand and articulate how skills and concepts learned in the classroom can be applied in a professional setting. As reflected in our Learning Outcomes ([https://womenstudies.wisc.edu/documents/GWSLearningOutcomes\\_000.pdf](https://womenstudies.wisc.edu/documents/GWSLearningOutcomes_000.pdf)), students in gender and women's studies develop desirable professional skills, such as written and oral communication, critical thinking, problem solving, and collaboration skills, as well as critical self and social awareness.

The department continues to expand career development opportunities for our students by working with our alumni, and offering workshops, panels, and networking opportunities.

#### THE L&S CAREER SERVICES OFFICE ([HTTP://CAREERS.LS.WISC.EDU/STUDENTS.HTM](http://careers.ls.wisc.edu/students.htm))

The L&S Career Services Office helps students leverage the academic skills learned in their major, certificates, and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

The L&S Career Services Office can assist students in career advising, resume and cover letter writing, networking opportunities, interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

## PEOPLE

### FACULTY

Professors: Finn Enke (<https://womenstudies.wisc.edu/professional-pages/enke.htm>), Susan Friedman (<https://womenstudies.wisc.edu/professional-pages/friedman.htm>), Janet Hyde (<https://>

womenstudies.wisc.edu/professional-pages/hyde.htm), Maria Lepowsky (<https://womenstudies.wisc.edu/professional-pages/lepowsky.htm>), Myra Marx Ferree (<https://womenstudies.wisc.edu/professional-pages/ferree.htm>), Aili Mari Tripp (<https://womenstudies.wisc.edu/professional-pages/tripp.htm>)

Associate and Assistant Professors: Christine Garlough (<https://womenstudies.wisc.edu/professional-pages/garlough.htm>), Jenny Higgins (<https://jennyhiggins.net>), Judith Houck (<https://womenstudies.wisc.edu/professional-pages/houck.htm>), Pernille Ipsen (<https://womenstudies.wisc.edu/professional-pages/ipsen.htm>), Ellen Samuels (<https://womenstudies.wisc.edu/professional-pages/samuels.htm>), Keisha Lindsay (<https://womenstudies.wisc.edu/professional-pages/lindsay.htm>)

Faculty Affiliates: See the GWS Faculty Affiliates (<https://womenstudies.wisc.edu/affiliates.htm>) for more information about instructors on campus who are engaged in feminist-inspired teaching and research.

## LECTURERS AND TEACHING ASSISTANTS

See the current semester's directory (<https://womenstudies.wisc.edu/lecturers-ta.htm>) of GWS lecturers and teaching assistants.

## UNDERGRADUATE STUDENT SERVICES

Academic Advising: Susan Nelson (<https://womenstudies.wisc.edu/undergrad-advising.htm>)

Enrollment Inquiries: Diane Walton (<https://womenstudies.wisc.edu/staff.htm>)

Curricular Planning: Nina Valeo Cooke (<https://womenstudies.wisc.edu/professional-pages/cooke.html>)

## GENDER AND WOMEN'S STUDIES, B.S.

The gender and women's studies major and certificate provide a unique background for students seeking to analyze gender and other vectors of inequality, both historically and in contemporary society, as reflected through texts, social practices, and social institutions in the U.S. and abroad. Our graduates have gone on to provide this kind of analysis in fields like health policy, immigration law, social work, reproductive justice, educational administration, employment policy, medicine, architectural design, and media production.

The curriculum reflects the interdisciplinary nature of gender and women's studies, offering to all students an opportunity to study gender and women in such areas as literature, history, anthropology, sociology, education, law, biology, psychology, philosophy, political science, economics, and the arts. Department courses have been designed to fulfill breadth requirements in the appropriate divisions.

The **undergraduate major** is a 30-credit program and the **certificate** is a 15-credit program. The interdisciplinary nature of gender and women's studies lends itself to working well with and complementing many other programs and plans across campus.

## HOW TO GET IN

### APPLICATION

To become a gender and women's studies major, students must first complete GEN&WS 101 Gender, Women, and Cultural Representation, GEN&WS 102 Gender, Women, and Society in Global Perspective, **OR** GEN&WS 103 Women and Their Bodies in Health and Disease with a grade of B or better. Then they must declare their intention to complete the gender and women's studies major with the undergraduate advisor (<https://womenstudies.wisc.edu/undergrad-advising.htm>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

Majors in gender and women's studies are required to take foundational work in gender and women's studies, courses reflecting each of four approaches to knowledge (humanities, social science, theory, and biological or health sciences), one course from three of four issue areas (sexuality, disability and embodiment, race/ethnicity, and global), and a capstone seminar or thesis.

All majors complete a minimum of 30 credits in GEN&WS including: <sup>1</sup>

### INTRODUCTORY GEN&WS

Code	Title	Credits
GEN&WS 101	Gender, Women, and Cultural Representation (only one of these courses may count toward the major)	3
or GEN&WS 102	Gender, Women, and Society in Global Perspective	
GEN&WS 103	Women and Their Bodies in Health and Disease	3
Total Credits		6

## APPROACHES <sup>2</sup>

1 course from each area:

### Biology and Health

Explore health as both a physiological and a socio#cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.

Code	Title	Credits
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3
GEN&WS 530	Biology and Gender	3
GEN&WS/HIST SCI/ MED HIST 531	Women and Health in American History	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Women and Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3

### Humanities

Engage with humanities-based theories, content areas, and methodologies as they relate to gender and women's studies. These include, but are not limited to, critical text analysis, discourse analysis, historical approaches and archival work, media studies, ethnography, and digital humanities. (GEN&WS courses with H, L or Z designations)

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/ LITTRANS 205	Women in Russian Literature in Translation	3-4
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS/ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ENGL 250	Women in Literature	3
GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities	1-3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3



GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	3-4	GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3	GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3	GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS 330	Topics in Gender/Class/Race/ Ethnicity (Humanities)	3	GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3	GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3
GEN&WS 340	Topics in LGBTQ Sexuality	3	<b>Social Science</b>		
GEN&WS 342	Transgender Studies	3-4	Engage with social-science-based theories, content areas, and methodologies as they relate to gender and women's studies.		
GEN&WS 343	Queer Bodies	3	These include, but are not limited to, scientific and clinical research, statistical analysis, mixed-methods approaches, and theories of social change. (GEN&WS courses with S or Z designations)		
GEN&WS/ CLASSICS 351	Gender and Sexuality in the Classical World	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4	GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	GEN&WS/C&E SOC/ SOC 215	Gender and Work in Rural America	3
GEN&WS 370	Topics in Gender and Disability	3	GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS 371	Disability and Gender in Film	3	GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 372	Visualizing Bodies	3	GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	3-4
GEN&WS 414	Gender, Performance, and Sexuality	3	GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	3
GEN&WS/ THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	3	GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3	GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS/ENGL 419	Gender and Language	3	GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ AMER IND/ANTHRO/ FOLKLORE 437	American Indian Women	3	GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS 441	Contemporary Feminist Theories	3	GEN&WS/ HISTORY 392	Women in History	3-4
GEN&WS 442	Lesbian Culture	3	GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 445	The Body in Theory	3	GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3	GEN&WS 424	Women's International Human Rights	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3	GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS/ PORTUG 460	Carmen Miranda	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3	GEN&WS 427	Global Feminisms	3
GEN&WS/ASIAN AM/ ENGL 464	Asian American Women Writers	3	GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3	GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3	GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3			
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3			
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3			
GEN&WS/ENGL 545	Feminist Theory and Women's Writing in English	3			

GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3	GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4	GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3	GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/SOC 477	Feminism and Sociological Theory	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3	GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS/ ED POL 560	Gender and Education	3	GEN&WS/ AMER IND/ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3	GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/SOC 611	Gender, Science and Technology	3			

### Feminist Theory

Explore feminist theoretical approaches, both national and international.

Code	Title	Credits
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS 547	Theorizing Intersectionality	3

### ISSUE AREAS <sup>2</sup>

#### Race/Ethnicity

Explore the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference. These courses may explore the construction and deployment of race/ethnicity anywhere in the world.

Code	Title	Credits
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS/ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3

GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS/ AMER IND/ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3

#### Global

Explore aspects of gender in a comparative national frame. These classes may focus on the process of globalization or they may focus on gendered concerns in at least two national contexts.

Code	Title	Credits
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3

GEN&WS/ URB R PL 644	International Development and Gender	3
GEN&WS 661	Global Internship in Gender and Women's Studies	1-6

### Sexuality

Explore "sexuality" under the assumption that sexuality is not a natural or self-evident attribute or category, these courses demonstrate how sexuality has come to assume a variety of culturally specific but often contested meanings.

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ CLASSICS 351	Gender and Sexuality in the Classical World	3-4
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS/ENGL 419	Gender and Language	3
GEN&WS/ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3

### Disability & Embodiment

Examine the creation and evolution of different categories of embodiment and the experience of living through and as bodies. These courses focus on gender and disability, exploring disability as a social category, a medical realm, a political identity, an analytical approach, and a lived experience.

Code	Title	Credits
GEN&WS 343	Queer Bodies	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 445	The Body in Theory	3

### CAPSTONE

Code	Title	Credits
<b>Capstone course or Thesis Sequence:</b>		3-6
GEN&WS 640	Capstone Seminar in Gender and Women's Studies	

GEN&WS 681	Senior Honors Thesis I	
& GEN&WS 682	and Senior Honors Thesis II	
GEN&WS 691	Senior Thesis I	
& GEN&WS 682	and Senior Honors Thesis II	
Total Credits		3-6

### RESIDENCE & QUALITY OF WORK

2.000 GPA in all GEN&WS and major courses

2.000 GPA on 15 upper-level major credits, taken in Residence <sup>1</sup>

15 credits in GEN&WS, taken on the UW–Madison campus

### NOTES

- <sup>1</sup> A maximum three courses designated as Elementary level may apply in the major, overall. Directed Study courses typically do not count toward the minimum credits required in the major.
- <sup>2</sup> A single course may apply to **both** Approach and Issues but a course may **not** apply to more than one Approach and it may not more than one Issue area.
- <sup>3</sup> Courses in GEN&WS and approved for the major that carry the Intermediate- or Advanced-level designation are considered upper level in the major.

### RESEARCH IN THE MAJOR

Students interested in the doing research in Gender & Women's Studies are encouraged to incorporate coursework outside of Gender and Women's Studies and develop a thesis (GEN&WS 691-GEN&WS 692 or GEN&WS 681-GEN&WS 682) in consultation with a member of the faculty. The thesis sequence would serve as the Capstone requirement in the major. In this case, the student may still take GEN&WS 640 Capstone Seminar in Gender and Women's Studies as an elective in the major.

### HONORS IN THE MAJOR

To declare Honors in the Major in Gender and Women's Studies, students must submit a letter of application to the undergraduate advisor prior to enrollment in GEN&WS 681 Senior Honors Thesis I. The letter should include:

- A list of all planned and declared degrees, major and certificate programs
- Area(s) of research interest within gender and women's studies and ideas for an Senior Honors Thesis
- A letter from a faculty member agreeing to supervise the thesis project

### HONORS IN THE GENDER AND WOMEN'S STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Gender and Women's Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEN&WS courses, and all courses accepted in the major
- Complete at least 2 courses, for a total of 6 or more credits, taken for Honors in GEN&WS

- Complete a two-semester Senior Honors Thesis in GEN&WS 681 Senior Honors Thesis I and GEN&WS 682 Senior Honors Thesis II, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Gender #** Understand the concept of gender as an identity and an institution along its multiple dimensions (cultural, social, political, economic) and how gender in forms power relations.
- Intersectionality #** Recognize how gender intersects with other axes of inequality, such as race, class, disability status, sexuality, gender expression, nationality, geography and age. Identify the difference between intersectional and universalist understandings of gender.
- Feminist theory #** Apply feminist theoretical approaches, both national and international.
- Class #** Recognize the role of economic inequalities in creating material and cultural differences in the US and other national contexts and their gendered implications.
- Race/Ethnicity #** Understand the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference and its relationship to gender.
- Global Processes #** Appreciate historical, political, cultural and socio#economic influences on gender relations in global context. Understand global dimensions of gender inequality, including hierarchies among women within and across nations. Identify gendered dynamics of globalization in historical or contemporary contexts.
- Sexuality -#** Understand that sexuality is not a natural or self#evident attribute or category and that sexuality assumes a variety of culturally specific and contested meanings.
- Disability and Embodiment #** Understand the creation and evolution of different categories of embodiment and the experience of living through and as bodies.
- Health and Science #** Identify that health is both a physiological and a socio#cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.
- Contemporary and Historical Issues** - Gain familiarity with a variety of issue areas in which gender is important, both historically and today, in national and transnational spheres. These include but are not limited to: health, the body, science, politics, citizenship, feminism, activism, labor, history, media, language, literature and the arts.
- Problem solving #** Identify important historical and contemporary issues relating to gender and women's studies, evaluate responses to them, and adapt the knowledge gained through this process to everyday situations.
- Research and inquiry #** Identify a problem related to gender and women's studies. Produce or locate resources and learn to build a research agenda. Read broadly in order to develop well-focused projects, using primary and secondary sources. Delineate key points in scholarly articles and respond to them. Use different modes of research, including empirical methods, scholarly literature, and theoretical and artistic engagement. Develop advanced library skills tailored to specific research projects, including facility with electronic databases, bibliographic reference materials, archival documents, and image and sound repositories. Evaluate resources for their reliability.
- Interdisciplinarity #** Engage in interdisciplinary inquiry and research and understand the strengths and limits of interdisciplinarity.
- Critical thinking #** Be able to perform critical thinking along four dimensions: critical analysis, in which one can identify and evaluate arguments, rhetorical styles, synthesize ideas, and develop well#substantiated, coherent, and concise arguments; logical reasoning, in which one can identify and follow a logical sequence or argument through to its end and recognize faulty reasoning or premature closure; abstract thinking, in which one can generalize for a specific purpose and/or in a way that clarifies and heightens understanding of major issues at stake, or identifies the essential or most relevant elements of a concept, event, object, text, etc; argumentation, in which one can marshal appropriate and relevant evidence in order to develop a clear claim or stance using specific rhetorical approaches.
- Writing #** Express ideas effectively in written form, develop sufficient evidence for arguments, and tailor arguments to audience and context.
- Oral Communication #** Express ideas effectively in verbal form, tailoring arguments and presentation styles to audience and context.
- Collaboration -#** Work collectively, take initiative, offer and receive constructive criticism, exchange ideas and creatively work together toward a common endeavor.
- Creativity #** Bring together a variety of texts, ideas, theoretical, political, empirical, aesthetic and rhetorical approaches in order to respond imaginatively to a social, political or intellectual issue.
- Career skills** - Create the building blocks for a career after graduation with all of the above skills.
- Critical self#awareness** - Demonstrate self#reflexivity about one's ideas and social and political positions.
- Critical social awareness #** Engage critically with social institutions that influence our personal and social lives, such as media, politics, the healthcare system, the economy and education.
- Ethics -#** Apply ethical frameworks, informed by the study of gender, feminism and social justice movements, to address unequal treatment or advantage in a variety of contexts.

23. **Engaged Practices** -# Link theory with practice. Recognize and advocate for social change at the local, national or transnational level.
24. **Advanced accomplishment** # Demonstrate synthesis of skills acquired and performed in advanced coursework.
25. **Application beyond the Gender and Women's Studies classroom** - Apply key Gender and Women's Studies concepts to one's life, activist projects, and to non#Gender and Women's Studies academic coursework.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

#### UNDERGRADUATE ADVISING IN GENDER AND WOMEN'S STUDIES AND LGBT STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/UNDERGRAD-ADVISING.HTM](https://womenstudies.wisc.edu/undergrad-advising.htm))

Connecting and working with your gender and women's studies undergraduate advisor as early as possible helps you create a meaningful course plan and stay on track as you complete your degree requirements.

Our undergraduate advisor is available to consult on a variety of topics including: program declaration, adding an additional major or certificate, course planning and four-year graduation plans, volunteer and internship opportunities, graduate school, and career development.

#### INTERNSHIP PROGRAM IN GENDER AND WOMEN'S STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/INTERNSHIP.HTM](https://womenstudies.wisc.edu/internship.htm))

Applied learning through internships within the field of gender and women's studies allows students the opportunity to connect the classroom to the community and put theory into practice. Recognizing the power and importance of experiential and service learning, we proudly offer both local and global internship opportunities in our department.

Our internship program is designed to provide students with opportunities for learning and working in organizations and settings that connect their coursework in gender and women's studies to specific issues in community settings. The connected internship seminar provides a venue for students to engage deeply in feminist-based work and reflection while thinking critically about participating as feminists in activism and professional settings.

Internship courses in GEN&WS:

Code	Title	Credits
GEN&WS 660	Internship in Gender and Women's Studies	6
GEN&WS 661	Global Internship in Gender and Women's Studies	1-6

#### CAREER DEVELOPMENT IN GENDER AND WOMEN'S STUDIES ([HTTPS://WOMENSTUDIES.WISC.EDU/CAREERS.HTM](https://womenstudies.wisc.edu/careers.htm))

The Department of Gender and Women's Studies is committed to helping our students understand and articulate how skills and concepts learned in the classroom can be applied in a professional setting. As reflected in our Learning Outcomes (<https://womenstudies.wisc.edu/documents/>

[GWSLearningOutcomes\\_000.pdf](#)), students in gender and women's studies develop desirable professional skills, such as written and oral communication, critical thinking, problem solving, and collaboration skills, as well as critical self and social awareness.

The department continues to expand career development opportunities for our students by working with our alumni, and offering workshops, panels, and networking opportunities.

#### THE L&S CAREER SERVICES OFFICE ([HTTP://CAREERS.LS.WISC.EDU/STUDENTS.HTM](http://careers.ls.wisc.edu/students.htm))

The L&S Career Services Office helps students leverage the academic skills learned in their major, certificates, and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

The L&S Career Services Office can assist students in career advising, resume and cover letter writing, networking opportunities, interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

## PEOPLE

### FACULTY

Professors: Finn Enke (<https://womenstudies.wisc.edu/professional-pages/enke.htm>), Susan Friedman (<https://womenstudies.wisc.edu/professional-pages/friedman.htm>), Janet Hyde (<https://womenstudies.wisc.edu/professional-pages/hyde.htm>), Maria Lepowsky (<https://womenstudies.wisc.edu/professional-pages/lepowsky.htm>), Myra Marx Ferree (<https://womenstudies.wisc.edu/professional-pages/ferree.htm>), Aili Mari Tripp (<https://womenstudies.wisc.edu/professional-pages/tripp.htm>)

Associate and Assistant Professors: Christine Garlough (<https://womenstudies.wisc.edu/professional-pages/garlough.htm>), Jenny Higgins (<https://jennyhiggins.net>), Judith Houck (<https://womenstudies.wisc.edu/professional-pages/houck.htm>), Pernille Ipsen (<https://womenstudies.wisc.edu/professional-pages/ipsen.htm>), Ellen Samuels (<https://womenstudies.wisc.edu/professional-pages/samuels.htm>), Keisha Lindsay (<https://womenstudies.wisc.edu/professional-pages/lindsay.htm>)

Faculty Affiliates: See the GWS Faculty Affiliates (<https://womenstudies.wisc.edu/affiliates.htm>) for more information about instructors on campus who are engaged in feminist-inspired teaching and research.

### LECTURERS AND TEACHING ASSISTANTS

See the current semester's directory (<https://womenstudies.wisc.edu/lecturers-ta.htm>) of GWS lecturers and teaching assistants.

### UNDERGRADUATE STUDENT SERVICES

Academic Advising: Susan Nelson (<https://womenstudies.wisc.edu/undergrad-advising.htm>)

Enrollment Inquiries: Diane Walton (<https://womenstudies.wisc.edu/staff.htm>)

Curricular Planning: Nina Valeo Cooke (<https://womenstudies.wisc.edu/professional-pages/cooke.html>)

## GENDER AND WOMEN'S STUDIES, CERTIFICATE

The certificate program requires 15 credits of coursework in gender and women's studies. Students can tailor the certificate to reflect their interest, compliment their major or plan for graduate or professional school.

### HOW TO GET IN

Intent to pursue the certificate must be declared by meeting with the Department of Gender and Women's Studies undergraduate advisor as early as possible in the certificate program.

### REQUIREMENTS

#### GWS CERTIFICATE REQUIREMENTS

15 credits to include at least 12 credits in GEN&WS, to include: <sup>1,2</sup>

Code	Title	Credits
	Humanities credits in GEN&WS	3
	Social Science credits in GEN&WS	3
	Natural or Biological science credits in GEN&WS	3
	Additional credits in GEN&WS	6
	<b>Total Credits</b>	<b>15</b>

#### RESIDENCE & QUALITY OF WORK

2.000 GPA in all certificate credits

9 credits at the intermediate or advanced level

8 credits in residence

#### NOTES

<sup>1</sup> Students may apply only one of GEN&WS 101 Gender, Women, and Cultural Representation or GEN&WS 102 Gender, Women, and Society in Global Perspective to the certificate.

<sup>2</sup> Courses taken pass/fail do not apply to the certificate.

#### COURSE LISTS

##### Humanities courses in GEN&WS

Code	Title	Credits
GEN&WS 101	Gender, Women, and Cultural Representation	3
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer + Studies	3-4
GEN&WS/LITTRANS 205	Women in Russian Literature in Translation	3-4
GEN&WS/AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/AFROAMER 222	Introduction to Black Women Writers	3

GEN&WS/ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ENGL 250	Women in Literature	3
GEN&WS/LITTRANS 270	German Women Writers in Translation	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities	1-3
GEN&WS/HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	3-4
GEN&WS/AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS/CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS/CLASSICS 351	Gender and Sexuality in the Classical World	3-4
GEN&WS/HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 414	Gender, Performance, and Sexuality	3
GEN&WS/THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	3
GEN&WS/COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS/ENGL 419	Gender and Language	3
GEN&WS/AMER IND/ANTHRO/FOLKLORE 437	American Indian Women	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 442	Lesbian Culture	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/PORTUG 450	Brazilian Women Writers	3
GEN&WS/PORTUG 460	Carmen Miranda	3

GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3	GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers	3	GEN&WS 424	Women's International Human Rights	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3	GEN&WS/ CHICLA 425	Chicana and Latina Feminisms, Arts, and Media	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3	GEN&WS 427	Global Feminisms	3
GEN&WS/HIST SCI/ MED HIST 524	The Medical History of Sex and Sexuality	3	GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3	GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ENGL 545	Feminist Theory and Women's Writing in English	3	GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS 547	Theorizing Intersectionality	3	GEN&WS 449	Special Topics in Feminism and Social and Cultural Theory	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3	GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3	GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3	GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3	GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
			GEN&WS/ ED POL 560	Gender and Education	3
			GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3
			GEN&WS/SOC 611	Gender, Science and Technology	3

### Social Science courses in GEN&WS

Code	Title	Credits
GEN&WS 102	Gender, Women, and Society in Global Perspective	3
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer + Studies	3-4
GEN&WS/C&E SOC/ SOC 215	Gender and Work in Rural America	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	3-4
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women in History	3-4
GEN&WS 420	Women in Cross-Societal Perspective	3

### Natural and Biological science Courses in GEN&WS

Code	Title	Credits
GEN&WS 103	Women and Their Bodies in Health and Disease	3
GEN&WS 530	Biology and Gender <sup>3</sup>	3
GEN&WS/HIST SCI/ MED HIST 531	Women and Health in American History <sup>3</sup>	3
GEN&WS 533	Special Topics in Women and Health <sup>3</sup>	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights <sup>3</sup>	3

<sup>3</sup> GEN&WS 103 Women and Their Bodies in Health and Disease is a prerequisite for all upper-level biology and health courses in gender and women's studies.

## ADVISING AND CAREERS

### TO MEET WITH THE GENDER AND WOMEN'S STUDIES UNDERGRADUATE ADVISOR DURING THE ACADEMIC YEAR:

Please visit the undergraduate advisor's calendar for the gender and women's studies (GWS) certificate to make an appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/wuCLByLC.html>). To declare a major or certificate, please plan on a 15-minute appointment. Otherwise, schedule the time of a meeting according to your needs. Drop-

in advising (<https://womenstudies.wisc.edu/undergrad-advising.htm>) is also available.

There is no undergraduate advising available over the summer in GWS.

## PEOPLE

### FACULTY

Professors: Finn Enke (<https://womenstudies.wisc.edu/professional-pages/enke.htm>), Susan Friedman (<https://womenstudies.wisc.edu/professional-pages/friedman.htm>), Janet Hyde (<https://womenstudies.wisc.edu/professional-pages/hyde.htm>), Maria Lepowsky (<https://womenstudies.wisc.edu/professional-pages/lepowsky.htm>), Myra Marx Ferree (<https://womenstudies.wisc.edu/professional-pages/ferree.htm>), Aili Mari Tripp (<https://womenstudies.wisc.edu/professional-pages/tripp.htm>)

Associate and Assistant Professors: Christine Garlough (<https://womenstudies.wisc.edu/professional-pages/garlough.htm>), Jenny Higgins (<https://jennyhiggins.net>), Judith Houck (<https://womenstudies.wisc.edu/professional-pages/houck.htm>), Pernille Ipsen (<https://womenstudies.wisc.edu/professional-pages/ipsen.htm>), Ellen Samuels (<https://womenstudies.wisc.edu/professional-pages/samuels.htm>), Keisha Lindsay (<https://womenstudies.wisc.edu/professional-pages/lindsay.htm>)

Faculty Affiliates: See the GWS Faculty Affiliates (<https://womenstudies.wisc.edu/affiliates.htm>) for more information about instructors on campus who are engaged in feminist-inspired teaching and research.

### LECTURERS AND TEACHING ASSISTANTS

See the current semester's directory (<https://womenstudies.wisc.edu/lecturers-ta.htm>) of GWS lecturers and teaching assistants.

### UNDERGRADUATE STUDENT SERVICES

Academic Advising: Susan Nelson (<https://womenstudies.wisc.edu/undergrad-advising.htm>)

Enrollment Inquiries: Diane Walton (<https://womenstudies.wisc.edu/staff.htm>)

Curricular Planning: Nina Valeo Cooke (<https://womenstudies.wisc.edu/professional-pages/cooke.html>)

## LGBTQ+ STUDIES, CERTIFICATE

The LGBT studies certificate program, housed administratively in the Department of Gender and Women's Studies, is a campuswide program open to students in any major. Courses that count toward this interdisciplinary certificate come from a wide range of fields including literature, history, sociology, medical history, as well as from gender and women's studies, which is in itself an interdisciplinary field. This certificate can compliment many other programs and plans across campus, including, but not limited to gender and women's studies. New courses are added to the program each semester. Students are encouraged to check the LGBT studies certificate website (<https://womenstudies.wisc.edu/certificate-lgbt.htm>) regularly for a list of current course offerings by semester.

## HOW TO GET IN

Intent to pursue the certificate must be declared by meeting with the LGBT studies undergraduate advisor (<https://womenstudies.wisc.edu/undergrad-advising.htm>) as early as possible in the certificate program and before completing requirements.

## REQUIREMENTS

### LGBT STUDIES COURSE REQUIREMENTS

The certificate requires 15 credits distributed as follows: <sup>1,2</sup>

Code	Title	Credits
<b>Introduction to LGBT Studies</b>		
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
<b>3 courses and 9 credits in LGBT Studies</b>		9
GEN&WS/CLASSICS 351	Gender and Sexuality in the Classical World	
GEN&WS/COM ARTS 418	Gender, Sexuality, and the Media	
GEN&WS/ENGL 419	Gender and Language	
GEN&WS/ASIAN AM/ENGL 463	Race and Sexuality in American Literature	
GEN&WS/FOLKLORE 468	Feminism, Folklore and Comparative Literature	
GEN&WS 280	Honors Seminar: Studies in Gender, Sex, and Sexuality	
GEN&WS 340	Topics in LGBTQ Sexuality <sup>3</sup>	
GEN&WS 342	Transgender Studies	
GEN&WS 343	Queer Bodies	
GEN&WS/THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	
GEN&WS 442	Lesbian Culture	
GEN&WS 445	The Body in Theory	
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	
GEN&WS/HISTORY 346	Trans/Gender in Historical Perspective	
GEN&WS/HISTORY 519	Sexuality, Modernity and Social Change	
GEN&WS/HIST SCI/MED HIST 532	The History of the (American) Body	
HISTORY 275	Topics in LGBT History <sup>3</sup>	
HISTORY/GEN&WS 354	Women and Gender in the U.S. Since 1870	
GEN&WS 414	Gender, Performance, and Sexuality	

**Advanced Seminar in LGBT Studies <sup>4</sup>**



GEN&WS 642	Advanced Seminar in LGBT Studies (LGBT Studies Capstone)	3
Total Credits		15-16

- <sup>1</sup> Not more than one course can be taken at the elementary level to count for the LGBT studies certificate. Courses taken on a pass/fail basis will not satisfy certificate requirements.
- <sup>2</sup> For students also declared for the gender and women's studies major or certificate, a maximum 6 credits may apply to both programs.
- <sup>3</sup> Topics courses, such as HISTORY 275 and GEN&WS 340, may be taught with a number of different LGBT topics and therefore may be taken more than once, so long as the topic is different.
- <sup>4</sup> Students must have already completed at least 9 credits in the certificate before taking the capstone course, GEN&WS 642 Advanced Seminar in LGBT Studies (LGBT Studies Capstone).

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all certificate courses

8 credits In residence

## ADVISING AND CAREERS

### TO MEET WITH THE LGBT STUDIES UNDERGRADUATE ADVISOR DURING THE ACADEMIC YEAR:

Please visit the undergraduate advisor's calendar for the LGBT certificate to make an appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/wuCLByLC.html>). To declare a major or certificate, please plan on a 15-minute appointment. Otherwise, schedule the time of a meeting according to your needs. Drop-in advising is available Wednesdays from noon to 2 p.m. Please visit Sterling Hall, room 3312.

**There is no undergraduate advising available over the summer in LGBT studies.**

## PEOPLE

### LGBT STUDIES FACULTY

#### LGBT STUDIES CERTIFICATE STEERING COMMITTEE

Severino João Albuquerque (<http://spanport.wisc.edu/people/faculty/severino-jo%C3%A3o-albuquerque>), Department of Spanish and Portuguese

Leslie Bow (<https://english.wisc.edu/faculty-bow.htm>), Department of English

Colleen Capper (<https://elpa.education.wisc.edu/elpa/people/faculty-and-staff-directory/colleen-capper>), Department of Educational Leadership and Policy Analysis

Jill Casid (<https://arthistory.wisc.edu/jill-casid-biography.htm>), Department of Art History

Russ Castronovo (<https://english.wisc.edu/faculty-castronovo.htm>), Department of English

Laurie Beth Clark (<https://irh.wisc.edu/fellows/laurie-beth-clark>), Department of Art

Suzanne Desan ([https://history.wisc.edu/faculty\\_sd.htm](https://history.wisc.edu/faculty_sd.htm)), Department of History

Alex Dressler (<https://canes.wisc.edu/alex-dressler.htm>), Department of Classics

Finn Enke (<https://womenstudies.wisc.edu/professional-pages/enke.htm>), Departments of History and Gender & Women's Studies

Nan Enstad ([https://history.wisc.edu/faculty\\_ne.htm](https://history.wisc.edu/faculty_ne.htm)), Department of History

Ramzi Fawaz (<https://english.wisc.edu/faculty-fawaz.htm>), Department of English

Cecilia Ford (<https://english.wisc.edu/faculty-ford.htm>), Department of English

Christine Garlough (<https://womenstudies.wisc.edu/professional-pages/garlough.htm>), Departments of Gender & Women's Studies and Folklore

April Haynes ([https://history.wisc.edu/faculty\\_aha.htm](https://history.wisc.edu/faculty_aha.htm)), Department of History

Judith Houck (<https://womenstudies.wisc.edu/professional-pages/houck.htm>), Departments of Medical History & Bioethics and Gender & Women's Studies

Aida Levy-Hussen (<https://english.wisc.edu/faculty-hussen.htm>), Departments of English and Afro-American Studies

Susan Johnson ([https://history.wisc.edu/faculty\\_sj.htm](https://history.wisc.edu/faculty_sj.htm)), Department of History

J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark>), Departments of Anthropology and South and Southeast Asian Studies

B. Venkat Mani (<http://german.wisc.edu/about/people/faculty/b-venkat-mani>), Department of German

Laura McClure (<https://canes.wisc.edu/laura-mcclure.htm>), Department of Classics

Michael Jay McClure (<https://arthistory.wisc.edu/michael-jay-mcclure-biography.htm>), Department of Art History

Michael Peterson (<https://english.wisc.edu/intertheatrestudies/people/core-faculty>), Department of Theatre and Drama

Mary Lou Roberts ([https://history.wisc.edu/faculty\\_mlr.htm](https://history.wisc.edu/faculty_mlr.htm)), Department of History

Ellen Samuels (<https://english.wisc.edu/faculty-samuels.htm>), Departments of English and Gender & Women's Studies

Claire Wendland (<http://www.anthropology.wisc.edu/people/claire-wendland>), Departments of Anthropology, Obstetrics & Gynecology, and Medical History & Bioethics

Susan Zaeske (<https://commarts.wisc.edu/people/szaeske>), Department of Communication Arts

## UNDERGRADUATE STUDENT SERVICES

### ACADEMIC ADVISING

Susan Nelson (<https://womenstudies.wisc.edu/undergrad-advising.htm>)

### ENROLLMENT QUESTIONS

Diane Walton (<https://womenstudies.wisc.edu/staff.htm>)

### CURRICULAR PLANNING

Nina Valeo Cooke (<https://womenstudies.wisc.edu/professional-pages/cooke.html>)

## GEOGRAPHY

Geography studies the interaction between people and their environments including the ways in which the people, the environments, and the interactions all vary from place to place over the earth. Because it is concerned with the character of people and their cultures on the one hand, and with the character of the earth's surface and its resources on the other, it is both a social and a natural science. Being broad and integrative, geography provides an appropriate foundation for a liberal education. It also provides a base for employment in public or private agencies, both domestic and international, concerned with environmental management, locational analysis or planning (urban, regional, land use).

Cartography/GIS, also known more broadly as geographic information science, studies and develops digital technology and the theory behind this technology to help people work with geographic information. This broad area interfaces with work from the physical and social sciences. It is a field devoted to the acquisition, management, analysis, visualization, and representation of geospatial data. It is a relatively new discipline that incorporates geography, cartography, spatial analysis, and related fields such as geovisualization, geodesy, geocomputation, cognition, and computer science. At the present time professionals trained in geographic information science are very much in demand by federal agencies, state and local governments, and private firms.

The student desiring a limited introduction to the field of geography may select any introductory course in cultural or physical geography. Students with special interests in any of a number of fields outside of geography, such as history, political science, economics, anthropology, sociology, meteorology, geology, etc., will find useful background courses in geography. The student desiring a limited introduction to the field of GIScience may select either GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology or GEOG 370 Introduction to Cartography or GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems. Students in landscape architecture, urban and regional planning, civil and environmental engineering, medical illustration, or the environmental sciences may find GIScience a useful addition to their major course of study.

Department course offerings are listed in five major groups:

1. Physical Geography: Earth Systems and Environmental Processes
2. People–Environment Interaction
3. Human Geography
4. Area Studies and Global Systems
5. Cartography and Geographic Information Science

Courses in groups 1 and 5 (except GEOG 577 Environmental Modeling with GIS) are counted as physical science; those in groups 2 (except GEOG/ENVIR ST/SOIL SCI 230 Soil: Ecosystem and Resource and BOTANY 240 Plants and Humans), 3, and 4 are counted as social science.

All students must fulfill the L&S requirement of at least **15 credits of upper-level work in the major** completed in residence. All courses in the department identified as intermediate or advanced count toward this requirement.

## DEGREES/MAJORS/CERTIFICATES

- Cartography and Geographic Information Systems, B.A. (p. 650)
- Cartography and Geographic Information Systems, B.S. (p. 654)
- Geography, B.A. (p. 657)
- Geography, B.S. (p. 661)

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, B.A.

Cartography and GIS, also known more broadly as geographic information science, studies and develops digital technology and the theory behind it to help people work with geographic information. This broad area interfaces with work from the physical and social sciences. It is a field devoted to the acquisition, management, analysis, visualization, and representation of geospatial data. It is a relatively new discipline that incorporates geography, cartography, spatial analysis, and related fields such as geovisualization, geodesy, geocomputation, cognition, and computer science. At the present time professionals trained in geographic information science are very much in demand by federal agencies, state and local governments, and private firms.

## HOW TO GET IN

Exploring the field of geographic information science at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses in geographic information science:

- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online);
- GEOG 370 Introduction to Cartography;
- GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/ LAND ARC 371 Introduction to Environmental Remote Sensing; and
- GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems

Students who intend to declare their major as cartography and GIS need to schedule an appointment with the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
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L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR 30 CREDITS IN GEOGRAPHY

Code	Title	Credits
<b>Core</b>		<b>4</b>
GEOG 360	Quantitative Methods in Geographical Analysis (offered only in spring)	
or STAT 301	Introduction to Statistical Methods	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	
<b>Electives—three courses from:</b>		<b>9</b>
GEOG 572	Graphic Design in Cartography	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	
GEOG 579	GIS and Spatial Analysis	

<b>Topical Breadth—one course from each area:</b> <sup>1</sup>	9
<i>Physical Geography</i>	
<i>People–Environment Geography</i>	
<i>Human Geography or Area Studies and Global Systems</i>	
<b>College-level mathematics</b>	8
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
GEOG 378	Introduction to Geocomputing
Total Credits	30

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

## TOPICAL BREADTH AREAS

### Physical Geography

The locational arrangements of earth phenomena and their interaction as physical systems:

Code	Title	Credits
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/GEOSCI 320	Geomorphology	3
GEOG/ATM OCN 323	Science of Climate Change	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG/GEOSCI 326	Landforms-Topics and Regions	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts <sup>1</sup>	3
GEOG/BOTANY 338	Environmental Biogeography <sup>1</sup>	3
GEOG 344	The American West <sup>1</sup>	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOG/GEOSCI 523	Quaternary Vegetation Dynamics	3
GEOG/SOIL SCI 525	Soil Geomorphology	3
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes <sup>1</sup>	3
GEOG/GEOSCI 527	The Quaternary Period	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### People–Environment Geography

The human use, perception, and modification of environments:

Code	Title	Credits
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	3

GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts <sup>1</sup>	3
GEOG/ENVIR ST 337	Nature, Power and Society	3
GEOG/BOTANY 338	Environmental Biogeography <sup>1</sup>	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 344	The American West <sup>1</sup>	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3
GEOG/ENVIR ST 439	US Environmental Policy and Regulation	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape <sup>1</sup>	4
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes <sup>1</sup>	3
GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
GEOG/ENVIR ST 537	Culture and Environment	4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia <sup>1</sup>	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### Human Geography

The location and organization of human settlements and activities:

Code	Title	Credits
GEOG 101	Introduction to Human Geography	4
GEOG 301	Geography of Social Organization	3
GEOG/URB R PL 305	Introduction to the City	3-4
GEOG 318	Introduction to Geopolitics	3
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 348	Latin America <sup>1</sup>	4
GEOG 349	Europe <sup>1</sup>	3
GEOG 355	Africa, South of the Sahara <sup>1</sup>	3
GEOG 358	Human Geography of Southeast Asia <sup>1</sup>	3
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape <sup>1</sup>	4
GEOG 501	Space and Place: A Geography of Experience	3
GEOG 510	Economic Geography	4
GEOG 518	Power, Place, Identity	3
GEOG 566	History of Geographic Thought	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### Area Studies and Global Systems

The ways in which regions, places, and landscapes have acquired distinctive characteristics and problems as a result of their locations and resource potentials and of their settlement, appraisal, and use by particular peoples and cultures:

Code	Title	Credits
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 342	Geography of Wisconsin	3
GEOG 344	The American West <sup>1</sup>	3
GEOG 348	Latin America <sup>1</sup>	4
GEOG 349	Europe <sup>1</sup>	3
GEOG 355	Africa, South of the Sahara <sup>1</sup>	3
GEOG 358	Human Geography of Southeast Asia <sup>1</sup>	3
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia <sup>1</sup>	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all GEOG and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in GEOG, taken on the UW–Madison campus

<sup>2</sup> GEOG courses designated Intermediate/Advanced are upper level.

### HONORS IN THE MAJOR

Students may declare Honors in the Cartography and Geographic Information Systems Major in consultation with the Cartography and Geographic Information Systems undergraduate advisor.

### HONORS IN THE CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Cartography and Geographic Information Systems students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete a two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, for a total of 6 credits.

### UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

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

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

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

### ADVISING AND CAREERS

#### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

#### CAREERS

Cartography and GIS, and geography more broadly, are remarkably interdisciplinary fields that span the natural sciences, social sciences, and humanities. The types of careers that cartography and GIS can prepare students for thus reflect this diversity. Geographic information scientists work across the public, private, and nonprofit sectors, and commonly work in the following fields, where they acquire, manage, analyze, visualize, and represent geospatial data: environmental policy, conservation, and management; digital cartography; urban and transportation planning; economic and community development; geospatial intelligence; food security; historic preservation; environmental hazards management; demography and human health; human migration and displacement; journalism; international conflict resolution; tourism.

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, B.S.

Cartography and GIS, also known more broadly as geographic information science, studies and develops digital technology and the theory behind it to help people work with geographic information. This broad area interfaces with work from the physical and social sciences. It is a field devoted to the acquisition, management, analysis, visualization, and representation of geospatial data. It is a relatively new discipline that incorporates geography, cartography, spatial analysis, and related fields such as geovisualization, geodesy, geocomputation, cognition, and computer science. At the present time professionals trained in geographic information science are very much in demand by federal agencies, state and local governments, and private firms.

## HOW TO GET IN

Exploring the field of geographic information science at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses in geographic information science:

- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online);
- GEOG 370 Introduction to Cartography;
- GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/ LAND ARC 371 Introduction to Environmental Remote Sensing; and
- GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems

Students who intend to declare their major as cartography and GIS need to schedule an appointment with the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum 2.000 in all coursework at UW–Madison  
 GPAs 2.000 in intermediate/advanced coursework at UW–Madison

**NON–L&S STUDENTS PURSUING AN L&S MAJOR**

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

**REQUIREMENTS FOR THE MAJOR**  
**30 CREDITS IN GEOGRAPHY**

Code	Title	Credits
<b>Core</b> 4		
GEOG 360	Quantitative Methods in Geographical Analysis (offered only in spring)	4
or STAT 301	Introduction to Statistical Methods	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
GEOG 370	Introduction to Cartography	4
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	
<b>Electives—three courses from:</b>		9
GEOG 572	Graphic Design in Cartography	9
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	9
GEOG 579	GIS and Spatial Analysis	
<b>Topical Breadth—one course from each area:</b> <sup>1</sup>		9
<i>Physical Geography</i>		9
<i>People–Environment Geography</i>		
<i>Human Geography or Area Studies and Global Systems</i>		
<b>College-level mathematics</b>		8
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	8
GEOG 378	Introduction to Geocomputing	
<b>Total Credits</b>		30

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

**TOPICAL BREADTH AREAS**

**Physical Geography**

The locational arrangements of earth phenomena and their interaction as physical systems:

Code	Title	Credits
GEOG/ENVIR ST 120	Introduction to the Earth System	3

GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/GEOSCI 320	Geomorphology	3
GEOG/ATM OCN 323	Science of Climate Change	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG/GEOSCI 326	Landforms-Topics and Regions	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts <sup>1</sup>	3
GEOG/BOTANY 338	Environmental Biogeography <sup>1</sup>	3
GEOG 344	The American West <sup>1</sup>	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOG/GEOSCI 523	Quaternary Vegetation Dynamics	3
GEOG/SOIL SCI 525	Soil Geomorphology	3
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes <sup>1</sup>	3
GEOG/GEOSCI 527	The Quaternary Period	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

**People–Environment Geography**

The human use, perception, and modification of environments:

Code	Title	Credits
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	3
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts <sup>1</sup>	3
GEOG/ENVIR ST 337	Nature, Power and Society	3
GEOG/BOTANY 338	Environmental Biogeography <sup>1</sup>	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 344	The American West <sup>1</sup>	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3
GEOG/ENVIR ST 439	US Environmental Policy and Regulation	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape <sup>1</sup>	4
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes <sup>1</sup>	3
GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
GEOG/ENVIR ST 537	Culture and Environment	4

GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia <sup>1</sup>	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### Human Geography

The location and organization of human settlements and activities:

Code	Title	Credits
GEOG 101	Introduction to Human Geography	4
GEOG 301	Geography of Social Organization	3
GEOG/URB R PL 305	Introduction to the City	3-4
GEOG 318	Introduction to Geopolitics	3
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 348	Latin America <sup>1</sup>	4
GEOG 349	Europe <sup>1</sup>	3
GEOG 355	Africa, South of the Sahara <sup>1</sup>	3
GEOG 358	Human Geography of Southeast Asia <sup>1</sup>	3
GEOG/ENVIR ST/HISTORY 469	The Making of the American Landscape <sup>1</sup>	4
GEOG 501	Space and Place: A Geography of Experience	3
GEOG 510	Economic Geography	4
GEOG 518	Power, Place, Identity	3
GEOG 566	History of Geographic Thought	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### Area Studies and Global Systems

The ways in which regions, places, and landscapes have acquired distinctive characteristics and problems as a result of their locations and resource potentials and of their settlement, appraisal, and use by particular peoples and cultures:

Code	Title	Credits
GEOG/HISTORY/LCA/POLI SCI/SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/HISTORY/LCA/POLI SCI/SOC 252	The Civilizations of India-Modern Period	4
GEOG/HISTORY/POLI SCI/SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/HISTORY/POLI SCI/SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
GEOG/AFROAMER/ANTHRO/C&E SOC/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260	Latin America: An Introduction	3-4

GEOG/AFRICAN/AFROAMER/ANTHRO/HISTORY/POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 340	World Regions in Global Context <sup>1</sup>	3
GEOG 342	Geography of Wisconsin	3
GEOG 344	The American West <sup>1</sup>	3
GEOG 348	Latin America <sup>1</sup>	4
GEOG 349	Europe <sup>1</sup>	3
GEOG 355	Africa, South of the Sahara <sup>1</sup>	3
GEOG 358	Human Geography of Southeast Asia <sup>1</sup>	3
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia <sup>1</sup>	3

<sup>1</sup> Course is listed in more than one subarea. Students must choose the subarea in which they want to count the course.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all GEOG and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in GEOG, taken on the UW–Madison campus

<sup>2</sup> GEOG courses designated Intermediate/Advanced are upper level.

### HONORS IN THE MAJOR

Students may declare Honors in the Cartography and Geographic Information Systems Major in consultation with the Cartography and Geographic Information Systems undergraduate advisor.

### HONORS IN THE CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Cartography and Geographic Information Systems students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete a two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, for a total of 6 credits.

### UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

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



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

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

management, locational analysis, or planning (urban, regional, land use), among other fields.

## HOW TO GET IN

Exploring the field of geography at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses, each of which surveys one of the four major subareas that comprise the discipline: (1) human geography; (2) people–environment geography; (3) physical geography; (4) and cartography and geographic information science. The four intro classes are:

- GEOG 101 Introduction to Human Geography;
- GEOG/ENVIR ST 120 Introduction to the Earth System;
- GEOG/ENVIR ST 139 Living in the Global Environment: An Introduction to People-Environment Geography; and
- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online).

Students who intend to declare their major in geography must schedule an appointment with the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Cartography and GIS, and geography more broadly, are remarkably interdisciplinary fields that span the natural sciences, social sciences, and humanities. The types of careers that cartography and GIS can prepare students for thus reflect this diversity. Geographic information scientists work across the public, private, and nonprofit sectors, and commonly work in the following fields, where they acquire, manage, analyze, visualize, and represent geospatial data: environmental policy, conservation, and management; digital cartography; urban and transportation planning; economic and community development; geospatial intelligence; food security; historic preservation; environmental hazards management; demography and human health; human migration and displacement; journalism; international conflict resolution; tourism.

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## GEOGRAPHY, B.A.

Geography studies the interaction between people and their environments, including the ways in which people, environments, and their interactions vary from place to place across Earth. Because it is concerned with the character of people and their cultures on the one hand, and with the character of Earth's surface and its resources on the other, it is both a social and a natural science. Being broad and integrative, Geography provides an appropriate foundation for a liberal education. It also provides a base for employment in public or private agencies, both domestic and international, concerned with environmental

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

### 30 CREDITS IN GEOG

To include:

Code	Title	Credits
	<b>Physical Geography—one course:</b>	3

GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOG/ GEOSCI 320	Geomorphology	
GEOG 321	Climatology	
GEOG/ ENVIR ST 325	Analysis of the Physical Environment	
GEOG/ GEOSCI 326	Landforms-Topics and Regions	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG 344	The American West	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG/ GEOSCI 523	Quaternary Vegetation Dynamics	
GEOG/ GEOSCI 524	Advanced Landform Geography	
GEOG/ SOIL SCI 525	Soil Geomorphology	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ GEOSCI 527	The Quaternary Period	
GEOG/ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
<b>People–Environment Geography—one course:</b>		<b>3</b>
GEOG/ ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
GEOG 319	Environmental Evaluation and Adaptation	
GEOG/ATM OCN/ENVIR ST 332		
GEOG/ ENVIR ST 337	Nature, Power and Society	
GEOG/BOTANY 338		
GEOG/ ENVIR ST 339	Environmental Conservation	
GEOG 340	World Regions in Global Context	
GEOG 344		
GEOG 359	Australia: Environment and Society	

GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ENVIR ST 439	
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG 508	Landscape and Settlement in the North American Past
GEOG/SOIL SCI 526	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ENVIR ST 557	
<b>Human Geography—one course:</b>	
GEOG 101	Introduction to Human Geography
GEOG 301	Geography of Social Organization
GEOG 302	Economic Geography: Locational Behavior
GEOG/ URB R PL 305	Introduction to the City
GEOG 318	Introduction to Geopolitics
GEOG 340	
GEOG 348	
GEOG 349	Europe
GEOG 353	Russia and the NIS-Topical Analysis
GEOG 355	
GEOG 358	Human Geography of Southeast Asia
GEOG/ENVIR ST/HISTORY 469	
GEOG 501	Space and Place: A Geography of Experience
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG/ URB R PL 506	Historical Geography of European Urbanization
GEOG 510	
GEOG 518	Power, Place, Identity
<b>Area Studies &amp; Global Systems—one course:</b>	<b>3</b>
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey

GEOG/ AFROAMER/ ANTHRO/ C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
GEOG/AFRICAN/ AFROAMER/ ANTHRO/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
GEOG 342	Geography of Wisconsin	
GEOG 348	Latin America	
GEOG 355	Africa, South of the Sahara	
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	
<b>Skills, Techniques, and Methodology</b>		
GEOG 360	Quantitative Methods in Geographical Analysis (offered only in spring)	4
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	3
<i>and one course from:</i>		3
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	
GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
<b>Electives</b>		<b>11</b>
Total Credits		<b>30</b>

## CONCENTRATION

Complete three courses, of which one must be advanced level, in one concentration area:

### Physical Geography

The locational arrangements of earth phenomena and their interaction as physical systems:

Code	Title	Credits
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOG/ GEOSCI 320	Geomorphology	
GEOG/ ATM OCN 323	Science of Climate Change	
GEOG/ ENVIR ST 325	Analysis of the Physical Environment	
GEOG/ GEOSCI 326	Landforms-Topics and Regions	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	

GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ BOTANY 338	Environmental Biogeography
GEOG 344	The American West
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG/ GEOSCI 523	Quaternary Vegetation Dynamics
GEOG/ SOIL SCI 525	Soil Geomorphology
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ GEOSCI 527	The Quaternary Period

### People–Environment

The human use, perception, and modification of environments:

Code	Title	Credits
GEOG/ ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ENVIR ST 337	Nature, Power and Society	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG/ ENVIR ST 339	Environmental Conservation	
GEOG 340	World Regions in Global Context	
GEOG 344	The American West	
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	
GEOG/ ENVIR ST 537	Culture and Environment	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	

### Human Geography

The location and organization of human settlements and activities:

Code	Title	Credits
GEOG 101	Introduction to Human Geography	
GEOG 301	Geography of Social Organization	
GEOG/ URB R PL 305	Introduction to the City	
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context	
GEOG 348	Latin America	
GEOG 349	Europe	
GEOG 355	Africa, South of the Sahara	
GEOG 358	Human Geography of Southeast Asia	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG 501	Space and Place: A Geography of Experience	
GEOG 510	Economic Geography	
GEOG 518	Power, Place, Identity	
GEOG 566	History of Geographic Thought	

### RESIDENCE & QUALITY OF WORK

2.000 GPA in GEOG and major courses

2.000 GPA on 15 upper-level credits, taken in residence <sup>2</sup>

15 credits in GEOG, taken on the UW–Madison campus

<sup>2</sup> GEOG courses designated Intermediate/Advanced are upper level.

### HONORS IN THE MAJOR

Students may declare Honors in the Geography Major in consultation with the Geography undergraduate advisor.

### HONORS IN THE GEOGRAPHY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Geography students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete 21 intermediate- or advanced-level GEOG courses, to include:
  - GEOG 766 Geographical Inquiry and Analysis: Techniques prior to enrollment in the Senior Honors Thesis; Honors students are not required to take GEOG 565 Colloquium for Undergraduate Majors)
  - Two advanced-level courses in the student's area of concentration, and
  - A two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. A broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS);
2. Skills in developing and implementing research plans;
3. Critical reasoning and analytical skills;
4. Communication skills—both written and oral.

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Geography is a remarkably interdisciplinary field that spans the natural sciences, social sciences, and humanities. The types of careers that Geography can prepare students for thus reflect this diversity. Geographers work across the public, private, and nonprofit sectors, and typically work in the following fields: environmental policy, conservation, and management; geospatial analysis; urban and transportation planning; economic and community development; food security; historic preservation; environmental hazards management; demography and health; refugees and immigration; digital cartography; journalism; international conflict resolution; tourism.

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## GEOGRAPHY, B.S.

Geography studies the interaction between people and their environments, including the ways in which people, environments, and their interactions vary from place to place across Earth. Because it is concerned with the character of people and their cultures on the one hand, and with the character of Earth's surface and its resources on the other, it is both a social and a natural science. Being broad and integrative, Geography provides an appropriate foundation for a liberal education. It also provides a base for employment in public or private agencies, both domestic and international, concerned with environmental management, locational analysis, or planning (urban, regional, land use), among other fields.

## HOW TO GET IN

Exploring the field of geography at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses, each of which surveys one of the four major subareas that comprise the discipline: (1) human geography; (2) people–environment geography; (3) physical geography; (4) and cartography and geographic information science. The four intro classes are:

- GEOG 101 Introduction to Human Geography;
- GEOG/ENVIR ST 120 Introduction to the Earth System;
- GEOG/ENVIR ST 139 Living in the Global Environment: An Introduction to People-Environment Geography; and
- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online).

Students who intend to declare their major in geography must schedule an appointment with the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW—Madison 2.000 in intermediate/advanced coursework at UW—Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### 30 CREDITS IN GEOG

To include:

Code	Title	Credits
<b>Physical Geography—one course:</b>		3
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOG/ GEOSCI 320	Geomorphology	
GEOG 321	Climatology	
GEOG/ ENVIR ST 325	Analysis of the Physical Environment	
GEOG/ GEOSCI 326	Landforms-Topics and Regions	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG 344	The American West	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG/ GEOSCI 523	Quaternary Vegetation Dynamics	
GEOG/ GEOSCI 524	Advanced Landform Geography	
GEOG/ SOIL SCI 525	Soil Geomorphology	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ GEOSCI 527	The Quaternary Period	
GEOG/ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
<b>People-Environment Geography—one course:</b>		3
GEOG/ ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	

GEOG 319	Environmental Evaluation and Adaptation
GEOG/ATM OCN/ENVIR ST 332	
GEOG/ ENVIR ST 337	Nature, Power and Society
GEOG/BOTANY 338	
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340 World Regions in Global Context	
GEOG 344	
GEOG 359 Australia: Environment and Society	
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ENVIR ST 439	
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG 508	Landscape and Settlement in the North American Past
GEOG/SOIL SCI 526	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ENVIR ST 557	
<b>Human Geography—one course:</b>	
GEOG 101	Introduction to Human Geography
GEOG 301	Geography of Social Organization
GEOG 302	Economic Geography: Locational Behavior
GEOG/ URB R PL 305	Introduction to the City
GEOG 318 Introduction to Geopolitics	
GEOG 340	
GEOG 348	
GEOG 349	Europe
GEOG 353	Russia and the NIS-Topical Analysis
GEOG 355	
GEOG 358	Human Geography of Southeast Asia
GEOG/ENVIR ST/HISTORY 469	
GEOG 501	Space and Place: A Geography of Experience
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG/ URB R PL 506	Historical Geography of European Urbanization
GEOG 510	
GEOG 518	Power, Place, Identity
<b>Area Studies &amp; Global Systems—one course:</b>	
3	

GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	
GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	
GEOG/ AFROAMER/ ANTHRO/ C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
GEOG/AFRICAN/ AFROAMER/ ANTHRO/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
GEOG 342	Geography of Wisconsin	
GEOG 348	Latin America	
GEOG 355	Africa, South of the Sahara	
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	
<b>Skills, Techniques, and Methodology</b>		
GEOG 360	Quantitative Methods in Geographical Analysis (offered only in spring)	4
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	3
<i>and one course from:</i>		3
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	
GEOG 370	Introduction to Cartography	
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
<b>Electives</b>		11
Total Credits		30

## CONCENTRATION

Complete three courses, of which one must be advanced level, in one concentration area:

### Physical Geography

The locational arrangements of earth phenomena and their interaction as physical systems:

Code	Title	Credits
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOG/ GEOSCI 320	Geomorphology	

GEOG/ ATM OCN 323	Science of Climate Change
GEOG/ ENVIR ST 325	Analysis of the Physical Environment
GEOG/ GEOSCI 326	Landforms-Topics and Regions
GEOG 329	Landforms and Landscapes of North America
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ BOTANY 338	Environmental Biogeography
GEOG 344	The American West
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG/ GEOSCI 523	Quaternary Vegetation Dynamics
GEOG/ SOIL SCI 525	Soil Geomorphology
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ GEOSCI 527	The Quaternary Period

### People–Environment

The human use, perception, and modification of environments:

Code	Title	Credits
GEOG/ ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ENVIR ST 337	Nature, Power and Society	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG/ ENVIR ST 339	Environmental Conservation	
GEOG 340	World Regions in Global Context	
GEOG 344	The American West	
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	

GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia

### Human Geography

The location and organization of human settlements and activities:

Code	Title	Credits
GEOG 101	Introduction to Human Geography	
GEOG 301	Geography of Social Organization	
GEOG/ URB R PL 305	Introduction to the City	
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context	
GEOG 348	Latin America	
GEOG 349	Europe	
GEOG 355	Africa, South of the Sahara	
GEOG 358	Human Geography of Southeast Asia	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG 501	Space and Place: A Geography of Experience	
GEOG 510	Economic Geography	
GEOG 518	Power, Place, Identity	
GEOG 566	History of Geographic Thought	

### RESIDENCE & QUALITY OF WORK

2.000 GPA in GEOG and major courses

2.000 GPA on 15 upper-level credits, taken in residence<sup>2</sup>

15 credits in GEOG, taken on the UW–Madison campus

<sup>2</sup> GEOG courses designated Intermediate/Advanced are upper level.

### HONORS IN THE MAJOR

Students may declare Honors in the Geography Major in consultation with the Geography undergraduate advisor.

### HONORS IN THE GEOGRAPHY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Geography students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete 21 intermediate- or advanced-level GEOG courses, to include:



- GEOG 766 Geographical Inquiry and Analysis: Techniques prior to enrollment in the Senior Honors Thesis; Honors students are not required to take GEOG 565 Colloquium for Undergraduate Majors)
- Two advanced-level courses in the student's area of concentration, and
- A two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. A broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS);
2. Skills in developing and implementing research plans;
3. Critical reasoning and analytical skills;
4. Communication skills—both written and oral.

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Geography is a remarkably interdisciplinary field that spans the natural sciences, social sciences, and humanities. The types of careers that Geography can prepare students for thus reflect this diversity. Geographers work across the public, private, and nonprofit sectors, and typically work in the following fields: environmental policy, conservation, and management; geospatial analysis; urban and transportation planning; economic and community development; food security; historic preservation; environmental hazards management; demography and

health; refugees and immigration; digital cartography; journalism; international conflict resolution; tourism.

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## GEOSCIENCE

The complementary fields of geology and geophysics are combined in one interdisciplinary department, with graduate degrees offered in both disciplines. The undergraduate degree is in geology and geophysics.

Geology offers unusual opportunities to interweave knowledge from many disciplines in the study of natural Earth phenomena. Those who enjoy the challenge of integrating different kinds of information into a unified interpretation will find geology particularly satisfying. Most geology students enjoy travel and have a strong interest in the natural environment as it is today and as it has developed through the past 4.5 billion years. A natural capacity for historical and sequential thought, inductive reasoning, and three-dimensional perception is helpful, and these skills will be developed. Geological investigations are becoming increasingly quantitative and experimental, and thus require some computer experience and a strong foundation in chemistry, physics, and mathematics.

The student of geophysics is interested in developing a quantitative understanding of the structure and dynamics of the Earth's interior from the shallow crust to deep core. Courses in geophysics apply basic physical laws and processes, such as those governing gravity, magnetism, heat flow, and seismic wave propagation, to the study of the Earth. An undergraduate may choose to concentrate in geophysics, but professional employment in the field often requires an advanced degree. Most students who pursue advanced study and careers in geophysics major in geology, physics, mathematics, or engineering as undergraduates.

## CAREERS

More than half of all professional geologists and geophysicists work in hydrogeology or the petroleum and mining industries. Such jobs involve an unusual breadth of training and personal adaptability, and the M.S. degree is generally required. About one fifth of all geoscientists work in state and federal geological surveys, and in government research activities such as oceanographic programs. These positions largely involve problems in geologic mapping, mineral resources, groundwater, and engineering. Geophysics offers opportunities in earthquake studies, seismic verification of nuclear test bans, and crustal rock characterization techniques for waste disposal and groundwater modeling. Many geology students continue on to obtain a Ph.D. degree and become faculty members at a college or university. A geology and geophysics major is also appropriate for those interested in careers in elementary or secondary education, environmental policy, or environmental law. Faculty advisors can provide additional information on career opportunities.

## PREPARATION FOR GRADUATE STUDY

An advanced degree is normally required for professional activity in geological and geophysical sciences; the student who contemplates such a degree should satisfy both department and graduate school requirements for admission to graduate study.

Minimum requirements for admission to graduate work in geology or geophysics at most universities in the United States, including the University of Wisconsin–Madison, are:

1. A bachelor's degree in geology/geophysics or a related science
2. One year of college chemistry (one year high school plus CHEM 109 Advanced General Chemistry recommended)
3. One year of college physics (PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended)
4. One year of calculus (MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended)
5. A summer field-mapping course equivalent to GEOSCI 459 Field Geology (Park City, Utah)

## DEGREES/MAJORS/CERTIFICATES

- Geology and Geophysics, B.A. (p. 666)
- Geology and Geophysics, B.S. (p. 670)

## PEOPLE

Professors Bahr, Brown, Carroll, DeMets, Feigl, Goodwin, Johnson, Kelly, Peters, Roden, Singer, Thurber, Tikoff, Tobin, Valley, Wang, Xu

Associate Professor Meyers

Assistant Professors Cardiff, Marcott, Zoet

## GEOLOGY AND GEOPHYSICS, B.A.

The complementary fields of geology and geophysics are combined in one interdisciplinary department, with graduate degrees offered in both disciplines. The undergraduate degree is in geology and geophysics.

Geology offers unusual opportunities to interweave knowledge from many disciplines in the study of natural Earth phenomena. Those who enjoy the challenge of integrating different kinds of information into a unified interpretation will find geology particularly satisfying. Most geology students enjoy travel and have a strong interest in the natural environment as it is today and as it has developed through the past 4.5 billion years. A natural capacity for historical and sequential thought, inductive reasoning, and three-dimensional perception is helpful, and these skills will be developed. Geological investigations are becoming increasingly quantitative and experimental, and thus require some computer experience and a strong foundation in chemistry, physics, and mathematics.

The student of geophysics is interested in developing a quantitative understanding of the structure and dynamics of the Earth's interior from the shallow crust to deep core. Courses in geophysics apply basic physical laws and processes, such as those governing gravity, magnetism, heat flow, and seismic wave propagation, to the study of

the Earth. An undergraduate may choose to concentrate in geophysics, but professional employment in the field often requires an advanced degree. Most students who pursue advanced study and careers in geophysics major in geology, physics, mathematics, or engineering as undergraduates.

## HOW TO GET IN

## BACKGROUND REQUIREMENTS

(Exceptions for Geophysics and Engineering Geology Track noted below)

- a. A one-year course sequence in calculus: MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended; MATH 211 Calculus–MATH 213 Calculus and Introduction to Differential Equations, or any combination of calculus courses, including transfer credits, that totals at least 8 credits at the intermediate level, is acceptable.
- b. The equivalent of a one-year course sequence in general chemistry: CHEM 109 Advanced General Chemistry recommended; CHEM 103 General Chemistry I–CHEM 104 General Chemistry II, or any combination of general chemistry courses, including transfer credits, that totals at least 8 credits, is acceptable.
- c. An equivalent of a one-year course sequence in general physics that totals at least 8 credits: PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended; PHYSICS 103 General Physics–PHYSICS 104 General Physics, PHYSICS 201 General Physics–PHYSICS 202 General Physics, PHYSICS 247 A Modern Introduction to Physics–PHYSICS 248 A Modern Introduction to Physics, or any combination of general physics courses, including transfer credits, that totals at least 8 credits, is acceptable. Students preparing to specialize in paleontology may, with approval of the Undergraduate Studies Committee, substitute ZOOLOGY/BIOLOGY/BOTANY 151 Introductory Biology–ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology or other appropriate courses in biological sciences for the physics requirement.

## DECLARING A MAJOR

To declare a major in geology or geophysics, students must have taken one of the following geoscience courses: GEOSCI 202 Introduction to Geologic Structures, GEOSCI 204 Geologic Evolution of the Earth, or GEOSCI/G L E 360 Principles of Mineralogy. Students must meet with an undergraduate advisor and complete a Major Declaration Form.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Prospective majors are strongly encouraged to seek assistance from a faculty advisor in order to choose courses appropriate to their interests and career plans. Advisors can also assist students in choosing a track that is appropriate for their interests and career goals.

**Background Requirements**

1. The equivalent of a one-year course sequence in calculus that totals at least 8 credits:

MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended; MATH 211 Calculus–MATH 213 Calculus and Introduction to Differential Equations, or any combination of calculus courses, including transfer credits, that totals at least 8 credits at the intermediate level, is acceptable.

2. The equivalent of a one-year course sequence in general chemistry that totals at least 8 credits:

CHEM 109 Advanced General Chemistry recommended; CHEM 103 General Chemistry I–CHEM 104 General Chemistry II, or any combination of general chemistry courses, including transfer credits, that totals at least 8 credits, is acceptable.

3. The equivalent of a one-year course sequence in general physics that totals at least 8 credits:

PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended; PHYSICS 103 General Physics–PHYSICS 104 General Physics, PHYSICS 201 General Physics–PHYSICS 202 General Physics, PHYSICS 247 A Modern Introduction to Physics–PHYSICS 248 A Modern Introduction to Physics, or any combination of general physics courses, including transfer credits, that totals at least 8 credits, is acceptable. Students preparing to specialize in paleontology may, with approval of the Undergraduate Studies Committee, substitute ZOOLOGY/BIOLOGY/BOTANY 151 Introductory Biology–ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology or other appropriate courses in biological sciences for the physics requirement.

(Exceptions to Background Requirements for the Geophysics and Engineering Geology Track are noted below)

Code	Title	Credits
<b>Core Courses (required for all tracks):</b>		
Select one of the following 100-level courses:		3
GEOSCI 100	General Geology	
GEOSCI/ENVIR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4

GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3

**Tracks**

Select one of the following tracks: 17-23

Geology Track

Geophysics and Engineering Geology Track

Environmental Geoscience Track

General Geology Track

Total Credits 34-40

**TRACKS****GEOLOGY TRACK**

Code	Title	Credits
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 375	Principles of Geochemistry	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 455	Structural Geology	4
Select 4 credits of GEOSCI electives numbered 300 and above <sup>1</sup>		4
Total Credits		17

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

**GEOPHYSICS AND ENGINEERING GEOLOGY TRACK**

Code	Title	Credits
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4
GEOSCI/G L E 474	Rock Mechanics	3
GEOSCI/G L E 594	Introduction to Applied Geophysics	3
GEOSCI/G L E 595	Field Methods in Applied and Engineering Geophysics	1
GEOSCI/G L E 627	Hydrogeology	3-4
Select one of the following:		3
E M A 303	Mechanics of Materials	
M E 306	Mechanics of Materials	
PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	
Select one of the following:		3-4
MATH 234	Calculus--Functions of Several Variables	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations	
MATH 340	Elementary Matrix and Linear Algebra	
Total Credits		21-23

Students choosing this track may not take PHYSICS 103 General Physics & PHYSICS 104 General Physics. A student may substitute E M A 201 Statics & E M A 202 Dynamics for PHYSICS 201 General Physics, PHYSICS 207 General Physics or PHYSICS 247 A Modern Introduction to Physics, and complete the major Physics requirement with PHYSICS 202

General Physics, PHYSICS 208 General Physics or PHYSICS 248 A Modern Introduction to Physics.

Students who are not Geological Engineering (GLE) majors may substitute GEOSCI/G L E 350/G L E/GEOSCI 350 Introduction to Geophysics: The Dynamic Earth for either GEOSCI/G L E/M S & E 474 Rock Mechanics or GEOSCI/G L E 627 Hydrogeology.

**ENVIRONMENTAL GEOSCIENCE TRACK**

Code	Title	Credits
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**Directed Electives**

Select one course from each of the following four categories:

Surface Environments: 3-4

GEOSCI/GEOG 320	Geomorphology	
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	
GEOSCI 430	Sedimentology and Stratigraphy	
GEOSCI/G L E 627	Hydrogeology	

Geochemistry: 3

GEOSCI 375	Principles of Geochemistry	
GEOSCI 610	Geochronology, Timescales, and Rates of Geologic Processes	
GEOSCI/G L E 629	Contaminant Hydrogeology	

Geobiology: 3

GEOSCI 304	Geobiology	
GEOSCI/ZOOLOGY 541	Paleobiology	
GEOSCI/ZOOLOGY 542	Invertebrate Paleontology	

Earth Resources: 3-4

GEOSCI/ENVIR ST 410	Minerals as a Public Problem	
GEOSCI/ENVIR ST 411	Energy Resources	
GEOSCI/G L E 455	Structural Geology	
GEOSCI 515	Principles of Economic Geology	
GEOSCI/G L E 594	Introduction to Applied Geophysics	

**Geoscience Electives**

Select 3 to 5 credits of GEOSCI electives numbered 300-level and higher to reach minimum of 17 credits for the track<sup>1</sup>

Total Credits 17-19

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

**GENERAL GEOLOGY TRACK**

Code	Title	Credits
Select 17 credits of GEOSCI electives numbered 300-level and higher <sup>1</sup>		17
Total Credits		17

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

## HONORS IN THE MAJOR

Students may declare Honors in the Geology and Geophysics Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE GEOLOGY AND GEOPHYSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Geology and Geophysics Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA in all GEOSCI courses, and all courses accepted in the major
- Complete a two-semester Senior Honors Thesis in GEOSCI 681 Senior Honors Thesis and GEOSCI 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

### ADVISING

Contact the Department of Geoscience for general information about advising.

**Philip Brown, undergraduate advisor in the major: economic geology, mineralogy, geochemistry**  
608-262-5954  
365 Weeks Hall

**Clay Kelly, undergraduate advisor in the major: micropaleontology and paleoceanography**  
608-262-1698  
463 Weeks Hall

**Shanan Peters, Undergraduate advisor in the major: sedimentary geology, paleobiology**  
608-262-5987

495 Weeks Hall

**Basil Tikoff, Undergraduate advisor in the major: structural geology**  
basil@geology.wisc.edu  
608-262-4678  
176 Weeks Hall

**Huifang Xu, Undergraduate advisor in the major: mineral science, nanogeoscience, and electron microscopy**  
608-265-5887  
A352 Weeks Hall

**Lucas Zoet, Undergraduate advisor in the major: glaciology and glacial geomorphology**  
lzoet@wisc.edu  
608-262-1921  
256B Weeks Hall

## CAREERS

More than half of all professional geologists and geophysicists work in hydrogeology or the petroleum and mining industries. Such jobs involve an unusual breadth of training and personal adaptability, and the M.S. degree is generally required. About one fifth of all geoscientists work in state and federal geological surveys, and in government research activities such as oceanographic programs. These positions largely involve problems in geologic mapping, mineral resources, groundwater, and engineering. Geophysics offers opportunities in earthquake studies, seismic verification of nuclear test bans, and crustal rock characterization techniques for waste disposal and groundwater modeling. Many geology students continue on to obtain a Ph.D. degree and become faculty members at a college or university. A geology and geophysics major is also appropriate for those interested in careers in elementary or secondary education, environmental policy, or environmental law. Faculty advisors can provide additional information on career opportunities.

The College of Letters & Science encourages majors to begin working on their career exploration and preparation soon after arriving on campus. Our department partners with the L&S Career Services office to help students leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to their success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a career advising appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we are transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Professors Bahr, Brown, Carroll, DeMets, Feigl, Goodwin, Johnson, Kelly, Peters, Roden, Singer, Thurber, Tikoff, Tobin, Valley, Wang, Xu

Associate Professor Meyers

Assistant Professors Cardiff, Marcott, Zoet

## GEOLOGY AND GEOPHYSICS, B.S.

The complementary fields of geology and geophysics are combined in one interdisciplinary department, with graduate degrees offered in both disciplines. The undergraduate degree is in geology and geophysics.

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## HOW TO GET IN

### BACKGROUND REQUIREMENTS

(Exceptions for Geophysics and Engineering Geology Track noted below)

- A one-year course sequence in calculus: MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended; MATH 211 Calculus–MATH 213 Calculus and Introduction to Differential Equations, or any combination of calculus courses, including transfer credits, that totals at least 8 credits at the intermediate level, is acceptable.
- The equivalent of a one-year course sequence in general chemistry: CHEM 109 Advanced General Chemistry recommended; CHEM 103 General Chemistry I–CHEM 104 General Chemistry II, or any combination of general chemistry courses, including transfer credits, that totals at least 8 credits, is acceptable.
- An equivalent of a one-year course sequence in general physics that totals at least 8 credits: PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended; PHYSICS 103 General Physics–PHYSICS 104 General Physics, PHYSICS 201

General Physics–PHYSICS 202 General Physics, PHYSICS 247 A Modern Introduction to Physics–PHYSICS 248 A Modern Introduction to Physics, or any combination of general physics courses, including transfer credits, that totals at least 8 credits, is acceptable. Students preparing to specialize in paleontology may, with approval of the Undergraduate Studies Committee, substitute ZOOLOGY/BIOLOGY/BOTANY 151 Introductory Biology–ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology or other appropriate courses in biological sciences for the physics requirement.

## DECLARING A MAJOR

To declare a major in geology or geophysics, students must have taken one of the following geoscience courses: GEOSCI 202 Introduction to Geologic Structures, GEOSCI 204 Geologic Evolution of the Earth, or GEOSCI/G L E 360 Principles of Mineralogy. Students must meet with an undergraduate advisor and complete a Major Declaration Form.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

Prospective majors are strongly encouraged to seek assistance from a faculty advisor in order to choose courses appropriate to their interests and career plans. Advisors can also assist students in choosing a track that is appropriate for their interests and career goals.

### Background Requirements

1. The equivalent of a one-year course sequence in calculus that totals at least 8 credits:

MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended; MATH 211 Calculus–MATH 213 Calculus and Introduction to Differential Equations, or any combination of calculus courses, including transfer credits, that totals at least 8 credits at the intermediate level, is acceptable.

2. The equivalent of a one-year course sequence in general chemistry that totals at least 8 credits:

CHEM 109 Advanced General Chemistry recommended; CHEM 103 General Chemistry I–CHEM 104 General Chemistry II, or any

combination of general chemistry courses, including transfer credits, that totals at least 8 credits, is acceptable.

3. The equivalent of a one-year course sequence in general physics that totals at least 8 credits:

PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended; PHYSICS 103 General Physics–PHYSICS 104 General Physics, PHYSICS 201 General Physics–PHYSICS 202 General Physics, PHYSICS 247 A Modern Introduction to Physics–PHYSICS 248 A Modern Introduction to Physics, or any combination of general physics courses, including transfer credits, that totals at least 8 credits, is acceptable. Students preparing to specialize in paleontology may, with approval of the Undergraduate Studies Committee, substitute ZOOLOGY/BIOLOGY/BOTANY 151 Introductory Biology–ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology or other appropriate courses in biological sciences for the physics requirement.

(Exceptions to Background Requirements for the Geophysics and Engineering Geology Track are noted below)

Code	Title	Credits
<b>Core Courses (required for all tracks):</b>		
Select one of the following 100-level courses:		3
GEOSCI 100	General Geology	
GEOSCI/ENVIR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3
<i>Tracks</i>		
Select one of the following tracks:		17-23
Geology Track		
Geophysics and Engineering Geology Track		
Environmental Geoscience Track		
General Geology Track		
Total Credits		34-40

## TRACKS

### GEOLOGY TRACK

Code	Title	Credits
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 375	Principles of Geochemistry	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 455	Structural Geology	4
Select 4 credits of GEOSCI electives numbered 300 and above <sup>1</sup>		4
Total Credits		17

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

### GEOPHYSICS AND ENGINEERING GEOLOGY TRACK

Code	Title	Credits
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1

GEOSCI/G L E 455	Structural Geology	4
GEOSCI/G L E 474	Rock Mechanics	3
GEOSCI/G L E 594	Introduction to Applied Geophysics	3
GEOSCI/G L E 595	Field Methods in Applied and Engineering Geophysics	1
GEOSCI/G L E 627	Hydrogeology	3-4
Select one of the following:		3
E M A 303	Mechanics of Materials	
M E 306	Mechanics of Materials	
PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	
Select one of the following:		3-4
MATH 234	Calculus--Functions of Several Variables	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations	
MATH 340	Elementary Matrix and Linear Algebra	
Total Credits		21-23

Students choosing this track may not take PHYSICS 103 General Physics & PHYSICS 104 General Physics. A student may substitute E M A 201 Statics & E M A 202 Dynamics for PHYSICS 201 General Physics, PHYSICS 207 General Physics or PHYSICS 247 A Modern Introduction to Physics, and complete the major Physics requirement with PHYSICS 202 General Physics, PHYSICS 208 General Physics or PHYSICS 248 A Modern Introduction to Physics.

Students who are not Geological Engineering (GLE) majors may substitute GEOSCI/G L E 350/G L E/GEOSCI 350 Introduction to Geophysics: The Dynamic Earth for either GEOSCI/G L E/M S & E 474 Rock Mechanics or GEOSCI/G L E 627 Hydrogeology.

## ENVIRONMENTAL GEOSCIENCE TRACK

Code	Title	Credits
<b>Directed Electives</b>		
Select one course from each of the following four categories:		
Surface Environments:		3-4
GEOSCI/GEOG 320	Geomorphology	
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	
GEOSCI 430	Sedimentology and Stratigraphy	
GEOSCI/G L E 627	Hydrogeology	
Geochemistry:		3
GEOSCI 375	Principles of Geochemistry	
GEOSCI 610	Geochronology, Timescales, and Rates of Geologic Processes	
GEOSCI/G L E 629	Contaminant Hydrogeology	
Geobiology:		3
GEOSCI 304	Geobiology	
GEOSCI/ZOOLOGY 541	Paleobiology	

GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	
Earth Resources:		3-4
GEOSCI/ENVIR ST 410	Minerals as a Public Problem	
GEOSCI/ENVIR ST 411	Energy Resources	
GEOSCI/G L E 455	Structural Geology	
GEOSCI 515	Principles of Economic Geology	
GEOSCI/G L E 594	Introduction to Applied Geophysics	
<b>Geoscience Electives</b>		
Select 3 to 5 credits of GEOSCI electives numbered 300-level and higher to reach minimum of 17 credits for the track <sup>1</sup>		5
Total Credits		17-19

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

## GENERAL GEOLOGY TRACK

Code	Title	Credits
Select 17 credits of GEOSCI electives numbered 300-level and higher <sup>1</sup>		17
Total Credits		17

<sup>1</sup> Except GEOSCI 331 Gems: The Science Behind the Sparkle.

## HONORS IN THE MAJOR

Students may declare Honors in the Geology and Geophysics Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE GEOLOGY AND GEOPHYSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Geology and Geophysics Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA in all GEOSCI courses, and all courses accepted in the major
- Complete a two-semester Senior Honors Thesis in GEOSCI 681 Senior Honors Thesis and GEOSCI 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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



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

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

## ADVISING AND CAREERS

### ADVISING

Contact the Department of Geoscience for general information about advising.

**Philip Brown, undergraduate advisor in the major: economic geology, mineralogy, geochemistry**

608-262-5954  
365 Weeks Hall

**Clay Kelly, undergraduate advisor in the major: micropaleontology and paleoceanography**

608-262-1698  
463 Weeks Hall

**Shanan Peters, Undergraduate advisor in the major: sedimentary geology, paleobiology**

608-262-5987  
495 Weeks Hall

**Basil Tikoff, Undergraduate advisor in the major: structural geology**

basil@geology.wisc.edu  
608-262-4678  
176 Weeks Hall

**Huifang Xu, Undergraduate advisor in the major: mineral science, nanogeoscience, and electron microscopy**

608-265-5887  
A352 Weeks Hall

**Lucas Zoet, Undergraduate advisor in the major: glaciology and glacial geomorphology**

lzoet@wisc.edu  
608-262-1921  
256B Weeks Hall

### CAREERS

More than half of all professional geologists and geophysicists work in hydrogeology or the petroleum and mining industries. Such jobs involve an unusual breadth of training and personal adaptability, and the M.S. degree is generally required. About one fifth of all geoscientists work in state and federal geological surveys, and in government research activities such as oceanographic programs. These positions largely involve problems in geologic mapping, mineral resources, groundwater, and engineering. Geophysics offers opportunities in earthquake studies, seismic verification of nuclear test bans, and crustal rock

characterization techniques for waste disposal and groundwater modeling. Many geology students continue on to obtain a Ph.D. degree and become faculty members at a college or university. A geology and geophysics major is also appropriate for those interested in careers in elementary or secondary education, environmental policy, or environmental law. Faculty advisors can provide additional information on career opportunities.

The College of Letters & Science encourages majors to begin working on their career exploration and preparation soon after arriving on campus. Our department partners with the L&S Career Services office to help students leverage the academic skills learned in the major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to their success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a career advising appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we are transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

### PEOPLE

Professors Bahr, Brown, Carroll, DeMets, Feigl, Goodwin, Johnson, Kelly, Peters, Roden, Singer, Thurber, Tikoff, Tobin, Valley, Wang, Xu

Associate Professor Meyers

Assistant Professors Cardiff, Marcott, Zoet

## GERMAN, NORDIC, AND SLAVIC

The Department of German, Nordic, and Slavic is home to undergraduate and graduate programs in German (p. 673), Scandinavian Studies (p. 674), and Slavic Studies (p. 674). The department offers courses in the linguistics and the literatures, cultures, and histories of these three areas, both in the target languages and in translation. The department provides instruction in more than a dozen languages, including Czech, Danish, Dutch, Finnish, German, Icelandic, Kazakh, Norwegian, Old Norse, Polish, Russian, Sami, Serbo-Croatian, Swedish, Turkish, and Yiddish.

### GERMAN PROGRAM

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and

sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies and are playing an increasingly important role in world affairs. Because the percentage of Wisconsinites of German ethnic background surpasses that of every other state in the union, many of our students are motivated to study German by their desire to explore their own family's heritage. The UW–Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

Knowledge of Dutch provides access to a culture that has been an important force in world history since the Middle Ages. The language of more than 20 million inhabitants of the Netherlands and Flanders (Dutch-speaking Belgium), Dutch is also spoken in Surinam and the Netherlands Antilles. It is also an important second language in Indonesia. As major economic powers, Belgium and the Netherlands play a leading role in shaping the European Union. World-class research in the sciences and humanities is conducted at Dutch and Belgian universities, and both countries can boast of a cultural life in which art, music, and theater are all flourishing.

### OPPORTUNITIES FOR GERMAN AND DUTCH STUDENTS

In addition to choosing from courses in culture, literature, linguistics, and German-American studies, German students can practice the language in various settings on campus, including the Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch>) Language House, which is located in Adams Hall. Other opportunities include the German Club, Kaffeestunde, and Stammtisch. There is also a Dutch Table for students of Dutch. Many German and Dutch students participate on semester- or year-long study abroad programs in Germany, Austria, and the Netherlands administered through International Academic Programs (<http://www.studyabroad.wisc.edu>), the School of Business, the College of Engineering, and the College of Agriculture and Life Sciences. The International Internship Program (<http://internships.international.wisc.edu>) also connects UW–Madison students to a wide range of internships in German- and Dutch-speaking Europe.

### SCANDINAVIAN STUDIES (NORDIC)

The Scandinavian Studies program provides the opportunity to learn a Scandinavian language or Finnish (modern Icelandic only occasionally). The literature, folklore, and culture of the Nordic countries are taught both in the original languages and in English translation. Partly in cooperation with other departments, courses in Scandinavian area studies are offered (history, social institutions, geography, art, archaeology). Students who major in the field may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available. Students who transfer to this university after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

### SLAVIC STUDIES

Courses in Russian and Polish are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all

incoming students, however, who want to continue their study of Russian or Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. Students should speak with their instructor regarding retroactive credits during the first week of class.

### RUSSIAN FLAGSHIP PROGRAM

The Russian Flagship Program offers students of any major the opportunity to achieve a professional level of competence in Russian. Students apply to the program directly. Residential and study abroad requirements, course options, and scholarship information are posted at Russian Flagship (<http://www.russianflagship.wisc.edu>). To obtain more information about the Russian Flagship Program, students should make an appointment with a Russian Flagship advisor (<https://russianflagship.wisc.edu/content/contact>).

## DEGREES/MAJORS/CERTIFICATES

- East Central European Languages, Literatures, and Cultures, Certificate (p. 675)
- German, B.A. (p. 676)
- German, B.S. (p. 681)
- German, Certificate (p. 686)
- Polish, B.A. (p. 687)
- Polish, B.S. (p. 689)
- Russian, B.A. (p. 692)
- Russian, B.S. (p. 696)
- Scandinavian Studies, B.A. (p. 700)
- Scandinavian Studies, B.S. (p. 703)
- Scandinavian Studies, Certificate (p. 706)

## PEOPLE

### GERMAN

Professors Hans Adler, Monika Chavez, Sabine Gross, Rob Howell, Mark Loudon, B. Venkat Mani, Pamela Potter, Joe Salmons, Jolanda Vanderwal Taylor

Associate Professors Salvatore Calomino, Sonja Klocke, Sabine Moedersheim

Assistant Professors Hannah V. Eldridge, Philip Hollander, Weijia Li, Sunny Yudkoff

Faculty Associate Jeanne Schueller

### SCANDINAVIAN STUDIES (NORDIC)

Professors Susan Brantly, Thomas DuBois, Kirsten Wolf

Assistant Professor Dean Krouk

Faculty Associates Scott A. Mellor, Nete Schmidt

Senior Lecturer Peggy Hager

Associate Lecturer Todd Michelson-Ambelang

## SLAVIC STUDIES

Professors David Danaher, Alexander Dolinin, Karen Evans-Romaine, Halina Filipowicz, Tomislav Longinovic, Irina Shevelenko, Manon van de Water

Associate Professor Andrew Reynolds

Assistant Professor Marina Zilbergerts

Faculty Associates Jennifer Tishler, Anna Tumarkin

Senior Lecturers Galina Lapina, Ewa Miernowska

Lecturer Alexandra Walter

## GERMAN, NORDIC, AND SLAVIC

Professor Uli Schamiloglu

Lecturer Funda Derin

## EAST CENTRAL EUROPEAN LANGUAGES, LITERATURES, AND CULTURES, CERTIFICATE

Are you of Czech, Polish, or SerboCroatian heritage—or do you just have a healthy fascination with East Central Europe? Can you imagine using any of these three languages in your future career or research? Since language and culture go hand in hand, the certificate in East Central European Languages, Literatures, and Cultures (ECELLC) combines language training (intermediate to advanced proficiency) with a wide variety of courses on the life of the region. Topics include vampires, science-fiction writing, Holocaust memory, and the pre-1989 culture of dissent as well as surveys of literature and culture by historical period. UW–Madison is one of only a handful of universities in North America where these languages are offered. UW also offers study-abroad opportunities in the Czech Republic, Poland, and Croatia. Courses taken abroad may count toward fulfillment of certificate requirements. Take advantage of the opportunity to learn these languages and to learn about the literatures and cultures of the countries where they are spoken.

## HOW TO GET IN

Students can declare the certificate in consultation with the faculty advisor for the certificate. Additional information can be found under the Advising and Careers tab for this program or in the Department of German, Nordic, and Slavic Studies (<http://gns.wisc.edu/undergraduate>).

## REQUIREMENTS

In order to receive the certificate in East Central European languages, literatures, and cultures, students are required to complete a minimum of 15 credits total.

Code	Title	Credits
<b>Part 1</b>		
Select one of the following options:		6-8
SLAVIC 217 & SLAVIC 218	Third Semester Czech and Fourth Semester Czech	

SLAVIC 207 & SLAVIC 208	Third Semester Polish and Fourth Semester Polish <sup>1</sup>	
SLAVIC 251 & SLAVIC 252	Third Semester Serbo-Croatian and Fourth Semester Serbo-Croatian	
<b>Part 2</b>		
Select three courses from the following:		9
LITTRANS 207	Slavic Science Fiction through Literature and Film	
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	
LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation	
LITTRANS 329	The Vampire in Literature and Film	
LITTRANS 454	History of Serbian and Croatian Literature	
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	
LITTRANS 473	Polish Literature (in Translation) since 1863	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/GEOG/HISTORY/POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 302	Zarys historii literatury polskiej	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC/FOLKLORE 444	Slavic and East European Folklore	
SLAVIC 449	Istorija srpske i hrvatske literature	
SLAVIC 454	Moderna srpska i hrvatska literatura	
SLAVIC 470	Historia literatury polskiej do roku 1863	
SLAVIC 472	Historia literatury polskiej po roku 1863	
<b>Total Credits</b>		<b>15-17</b>

<sup>1</sup> Students can satisfy this requirement by completing any two courses in Polish language beyond the second semester, including: SLAVIC 207 Third Semester Polish, SLAVIC 208 Fourth Semester Polish, SLAVIC 277 Third Year Polish I, SLAVIC 278 Third Year Polish II, SLAVIC 331 Fourth Year Polish I, and SLAVIC 332 Fourth Year Polish II.

## RESIDENCE AND QUALITY OF WORK

At least 8 credits must be earned in residence.

Students must earn a cumulative 2.000 GPA on required certificate coursework.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will minimally acquire intermediate proficiency in an East Central European Language (Czech, Polish, or SerboCroatian).
2. Students will develop and apply writing skills and oral communications skills appropriate to Liberal Arts education in the context of Slavic studies to the literatures and cultures of the region.
3. Students will develop and apply critical-thinking skills inherent in the Liberal Arts tradition to the literature and culture of the region.
4. Students will be able to analyze and interpret cultural products of the region (i.e. works of literature, films, etc.) in themselves and in the context of specific historical and cultural conditions.

## ADVISING AND CAREERS

The faculty advisor for the certificate in East Central European languages, Literatures, and cultures is David S. Danaher (dsdanaher@wisc.edu).

Advisors for the three languages represented by the certificate are:

- David Danaher (dsdanaher@wisc.edu) for Czech
- Halina Filipowicz (hfilipow@wisc.edu) or Ewa Miernowska (miernows@wisc.edu) for Polish
- Tomislav Longinovic (tlongino@wisc.edu) for Serbo-Croatian

For other undergraduate concerns, please contact our undergraduate coordinator for the Department of German, Nordic, and Slavic:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise Hall

## PEOPLE

### GERMAN

Professors Hans Adler, Monika Chavez, Sabine Gross, Rob Howell, Mark Loudon, B. Venkat Mani, Pamela Potter, Joe Salmons, Jolanda Vanderwal Taylor

Associate Professors Salvatore Calomino, Sonja Klocke, Sabine Moedersheim

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Lecturer Alexandra Walter

### GERMAN, NORDIC, AND SLAVIC

Professor Uli Schamiloglu

Lecturer Funda Derin

## GERMAN, B.A.

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies and are playing an increasingly important role in world affairs. Because the percentage of Wisconsinites of German ethnic background surpasses that of every other state in the union, many of our students are motivated to study German by their desire to explore their own family's heritage. The UW–Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

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### STUDY ABROAD

The German program works closely with International Academic Programs (<http://www.studyabroad.wisc.edu>) to provide a range of opportunities for study in Germany and the Netherlands, for majors and nonmajors alike. The program also cooperates with the School of Business, which maintains study abroad programs in Germany and Austria open to all qualified undergraduates, not just business majors. Finally, the College of Engineering and the College of Agriculture and Life Sciences offer study abroad programs in Germany for qualified students in these colleges.

## OTHER OPPORTUNITIES FOR GERMAN STUDENTS

UW–Madison students interested in international internships should visit the website of the International Internship Program (<http://internships.international.wisc.edu>).

The German-language immersion dormitory, Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch>), is located in Richardson House in Adams Hall, one of the Lakeshore dorms. Undergraduate students live and speak German together with a resident native speaker of German. Contact the German program for applications and details.

Other regular student activities include film screenings and lectures as well as informal, conversation-oriented Kaffeestunde, Stammtisch, Dutch Table, and the German Club. For additional information, contact the German program.

## OFFERINGS IN DUTCH STUDIES

Course offerings in Dutch include five semesters of language instruction as well as courses in the literature and culture of the Low Countries. Courses in Dutch language satisfy the L&S foreign language requirement, while courses in Dutch literature and culture carry literature and humanities credits, respectively. Dutch literature is also offered under Literature in Translation.

A major in Dutch studies is not yet established at UW–Madison, but interested students are encouraged to pursue an individual major in the field. In addition to the study of language, literature, and culture, this could entail coursework in art history, geography, history, sociology, and so on. Courses taken in the study abroad program in Utrecht can also be applied to an individual major in Dutch studies.

## HOW TO GET IN

### DECLARING THE MAJOR IN GERMAN

A student may declare the major in German at any time by consulting with the German program's undergraduate advisor.

### PREREQUISITES FOR THE MAJOR IN GERMAN

A total of 9 credits of language coursework at the third-year (post-204, "2xx") level is required for the German major.

Select one of the following options:

Code	Title	Credits
<b>Option 1:</b>		
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading <sup>1</sup>	3
GERMAN 262	Intermediate German-Writing <sup>1</sup>	3
<b>Option 2:</b>		
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 274 or GERMAN 284	Introduction to German Literature <sup>1</sup> Honors Introduction to German Literature	6
<b>Total Credits</b>		<b>9</b>

<sup>1</sup> Students may not receive credit for both GERMAN 258 or GERMAN 262 and GERMAN 274 or GERMAN 284.

Third-year German language courses (GERMAN 249, GERMAN 258, GERMAN 262, GERMAN 274, GERMAN 284) are not sequenced; they may be taken in any order and/or simultaneously. Note that GERMAN 274 and GERMAN 284, which are 6-credit courses, count as the equivalent of GERMAN 258 Intermediate German-Reading and GERMAN 262. If a student takes GERMAN 274 or GERMAN 284, only GERMAN 249 may be taken for the remaining 3 credits of prerequisite coursework.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General Education	Requirements
Breadth—Humanities/Literature/Arts:	6 credits
Breadth—Natural Science:	4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
Breadth—Social Studies:	3 credits
Communication Part A & Part B *	
Ethnic Studies *	
Quantitative Reasoning Part A & Part B *	

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

# REQUIREMENTS FOR THE MAJOR IN GERMAN

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
<b>Select a minimum of 27 advanced-level credits in German or cognate courses (maximum of 9), to include the following:</b>		
GERMAN 337	Advanced Composition & Conversation	3
GERMAN 676	Advanced Seminar in German Studies (GERMAN 676 and GERMAN 677 must be taken on the Madison campus.)	3
	or GERMAN 677 Seminar in German Culture Studies	
Twenty-one (21) additional advanced-level German credits are required, including a maximum of 9 credits from cognate courses. A minimum of 6 advanced-level German credits, to include the capstone seminar (GERMAN 676 or GERMAN 677), must be taken on the Madison campus.		21
Total Credits		27

## Residence and Quality of Work

2.000 GPA in all GERMAN courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in GERMAN, taken on campus

<sup>1</sup> Any GERMAN course numbered 300 or higher will count toward this requirement with the *exception* of these Dutch and graduate-level courses: GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314, GERMAN 325, GERMAN 335, GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, and GERMAN 404.

## Cognate Courses

Up to 9 of the 27 advanced-level credits required for the German major may come from cognate courses. These are courses with German-related subject matter that are taught in English either in the German program or in other departments, such as Anthropology, Art History, Business, Communication Arts, Folklore, Geography, History, Jewish Studies, Medieval Studies, Music, Philosophy, Political Science, Sociology, Theatre and Drama, and Urban and Regional Planning. Cognate courses taken in the German program may be at the elementary, advanced, or intermediate levels; those taken in other departments must be at the advanced level (numbered 300 or higher) only. Any questions about which courses may be counted as cognate courses may be directed to the undergraduate advisor.

## Study Abroad Coursework

Courses taken on a UW–Madison sponsored study abroad program count as “in residence.” Advanced-level courses for which there is no direct UW–Madison equivalent will appear on a student’s transcript as GERMAN 367 Study Abroad in German Literature, GERMAN 368 Study Abroad in German Culture, or GERMAN 369 Study Abroad in German Linguistics.

## On Campus Requirements

A minimum of 6 credits of advanced-level German coursework must be taken on the Madison campus (i.e., not on a study abroad program). The capstone seminar, GERMAN 676 Advanced Seminar in German Studies or GERMAN 677 Seminar in German Culture Studies, must be taken on the Madison campus.

## Senior Thesis

Any student who wishes to write a senior thesis may do so under the direction of a professor. Planning with the student’s major advisor or the directing professor should begin in the student’s junior year.

## LEVEL AND CLASSIFICATION OF GERMAN COURSES WITH REGARD TO L&S DEGREE REQUIREMENTS

German courses at the 100 level are regarded by the department as elementary, courses at the 200 level as intermediate, and courses at the 300 level or above as advanced.

Exceptions are:

- the following are regarded as elementary (E)

Code	Title	Credits
GERMAN 236	Bascom Course	3
GERMAN 245	Topics in Dutch Life and Culture	3
GERMAN 266	Topics in German and/or Yiddish Culture	3

GERMAN/JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	3
GERMAN 272	Nazi Culture	3
GERMAN 278	Topics in German Culture	3

- the following are regarded as intermediate/advanced (D)

Code	Title	Credits
GERMAN 235	Dutch Conversation and Composition	3
GERMAN/ JEWISH 267	Yiddish Song and the Jewish Experience	3-4
GERMAN 271	The German Immigration Experience	3
GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	3
GERMAN/JEWISH/ LITTRANS 279	Yiddish Literature and Culture in America	3
GERMAN 325	Topics in Dutch Literature	3
GERMAN 335	Dutch Conversation and Composition	3

All courses in German literature numbered 258 or higher may be applied toward the L&S humanities/literature requirement. GERMAN 676 Advanced Seminar in German Studies, German linguistics courses numbered 351 or above, and the German or Dutch culture courses numbered 245 or above may be applied toward the L&S humanities breadth requirement. GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, and GERMAN 404 are for graduate students and not applicable to the German major or L&S degree requirements. GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314, and GERMAN 325 are Dutch-language courses for graduate students and not applicable to the German major or L&S degree requirements.

## PLACEMENT

GERMAN 101 First Semester German and GERMAN 111 First Semester Dutch are beginning courses and require no previous training.

The following are open to freshmen with sufficient preparation in German or Dutch:

Code	Title	Credits
GERMAN 102	Second Semester German	4
GERMAN 112	Second Semester Dutch	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4
GERMAN 213	Third Semester Dutch	4
GERMAN 214	Fourth Semester Dutch	4
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading	3
GERMAN 262	Intermediate German-Writing	3
GERMAN 274	Introduction to German Literature	6
GERMAN 284	Honors Introduction to German Literature	6

Placement testing is advised for students entering from high school. Placement in more advanced courses is arranged on the basis of records

and tests. Consult the German programs's placement advisor with any questions.

## RETROACTIVE CREDITS

Retroactive credits (aka "retro credits") are credits granted in recognition of previous language study in high school. Retro credits earned at UW–Madison do correspond to particular courses, but the credits are not graded and do not factor into a student's grade point average. The course taken to earn retro credits for German language coursework must be the student's first college course in German or Dutch; it must be taken before earning 30 degree credits (not including advanced-placement credits); and the student must earn at least a B in the course. The following courses may be taken to earn retro credits.

Code	Title	Credits
4 credits earned for prerequisite work:		4
GERMAN 102 & GERMAN 112	Second Semester German and Second Semester Dutch	
8 credits earned for prerequisite work:		8
GERMAN 203 or GERMAN 213	Third Semester German or Third Semester Dutch	
12 credits earned for prerequisite work:		12
GERMAN 204 & GERMAN 214	Fourth Semester German and Fourth Semester Dutch	
16 credits earned for prerequisite work:		16
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 258	Intermediate German-Reading	
GERMAN 262	Intermediate German-Writing	
GERMAN 274	Introduction to German Literature	
GERMAN 284	Honors Introduction to German Literature	
or GERMAN 337 Advanced Composition & Conversation		

Consult the German program's placement advisor or see Retroactive Credits (<http://languages.wisc.edu/advising/retro>) for more information on retro credits.

## SEQUENCE OF ELEMENTARY AND INTERMEDIATE COURSES

The regular German sequence consists of:

Code	Title	Credits
GERMAN 101	First Semester German	4
GERMAN 102	Second Semester German	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4

After GERMAN 204, students may continue in any of the intermediate courses:

Code	Title	Credits
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading	3
GERMAN 262	Intermediate German-Writing	3
GERMAN 274	Introduction to German Literature	6

or GERMAN 284 Honors Introduction to German Literature

Intermediate courses may be taken in any sequence and simultaneously; however, GERMAN 274/GERMAN 284 counts as the equivalent of GERMAN 258 and GERMAN 262, so students may receive credit for either of the following:

Code	Title	Credits
GERMAN 258 & GERMAN 262	Intermediate German-Reading and Intermediate German-Writing	6
GERMAN 274 or GERMAN 284	Introduction to German Literature Honors Introduction to German Literature	6

The prerequisites for most advanced-level courses in German are:

Code	Title	Credits
Select one of the following options:		9

#### Option 1:

GERMAN 249 Intermediate German - Speaking and Listening

GERMAN 258 Intermediate German-Reading

GERMAN 262 Intermediate German-Writing

#### Option 2:

GERMAN 249 Intermediate German - Speaking and Listening

GERMAN 274 Introduction to German Literature  
or GERMAN 284 Honors Introduction to German Literature

## ADVANCED COURSES

All 300-level and 400-level courses, with the exception of language courses for graduate students<sup>1</sup>, are open to undergraduate students who have completed appropriate prerequisites on the intermediate level. The 600-level courses are open to seniors as well as other students who have completed the listed prerequisites. The 700-level courses are open only to seniors with a 3.500 GPA, permission of the instructor, and permission of the L&S dean.

### 300-400 level exceptions

These courses are not open to undergraduate students.

Code	Title	Credits
GERMAN 311	First Semester Dutch for Graduate Students	3
GERMAN 312	Second Semester Dutch for Graduate Students	3
GERMAN 313	Third Semester Dutch for Graduate Students	3
GERMAN 314	Fourth Semester Dutch for Graduate Students	3
GERMAN 391	German for Graduate Reading Knowledge I	3
GERMAN 392	German for Graduate Reading Knowledge II	3
GERMAN 401	First-Semester German for Graduate Students	3
GERMAN 402	Second-Semester German for Graduate Students	3
GERMAN 403	Third-Semester German for Graduate Students	3

GERMAN 404	Fourth-Semester German for Graduate Students	3
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## HONORS IN THE MAJOR

Students may declare Honors in the German Major in consultation with the German undergraduate advisor.

### HONORS IN THE GERMAN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in German students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 in all advanced-level GERMAN courses
- Complete 29 advanced-level credits in German, 20 of which must be taken for Honors, to include:

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation (for honors credit)	3
GERMAN 676	Advanced Seminar in German Studies (for honors credit)	3
GERMAN 677	Seminar in German Culture Studies	3
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	6

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

Any questions regarding advising or placement in German or Dutch may be directed to the undergraduate advisors for these programs:

Mark L. Loudon, Undergraduate German Advisor  
mlloudon@wisc.edu



802 Van Hise Hall

Jeanne M. Schueller, German Language Program Coordinator and Placement Advisor  
jmschuel@wisc.edu  
806 Van Hise Hall

Jolanda Vanderwal Taylor, Undergraduate Dutch Advisor  
jvtaylor@wisc.edu  
608-262-5790  
808 Van Hise Hall

For other undergraduate concerns, please contact the undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
undergrad@gns.wisc.edu  
608-262-2090  
1306 Van Hise Hall

For advising on careers related to German, Dutch, and other languages, contact:

Michael Kruse  
International Directions Advisor  
Language Institute  
mkruse@wisc.edu

For additional career advising, contact:

Letters & Science Career Initiative & Career Services  
1305 Linden Drive, Suite 205  
Madison, WI 53706  
608-262-3921  
careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors Hans Adler, Monika Chavez, Sabine Gross, Rob Howell, Mark Loudon, B. Venkat Mani, Pamela Potter, Joe Salmons, Jolanda Vanderwal Taylor

Associate Professors Salvatore Calomino, Sonja Klocke, Sabine Moedersheim

Assistant Professors Hannah V. Eldridge, Philip Hollander, Weijia Li, Sunny Yudkoff

Faculty Associate Jeanne Schueller

## GERMAN, B.S.

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies and are playing an increasingly important role in world affairs. Because the percentage of Wisconsinites of German ethnic background surpasses that of every other state in the union, many of our students are

motivated to study German by their desire to explore their own family's heritage. The UW–Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

Knowledge of Dutch provides access to a culture that has been an important force in world history since the Middle Ages. The language of more than 20 million inhabitants of the Netherlands and Flanders (Dutch-speaking Belgium), Dutch is also spoken in Surinam and the Netherlands Antilles. It is also an important second language in Indonesia. As major economic powers, Belgium and the Netherlands play a leading role in shaping the European Union. World-class research in the sciences and humanities is conducted at Dutch and Belgian universities, and both countries can boast of a cultural life in which art, music, and theater are all flourishing.

## STUDY ABROAD

The German program works closely with International Academic Programs (<http://www.studyabroad.wisc.edu>) to provide a range of opportunities for study in Germany and the Netherlands, for majors and nonmajors alike. The program also cooperates with the School of Business, which maintains study abroad programs in Germany and Austria open to all qualified undergraduates, not just business majors. Finally, the College of Engineering and the College of Agriculture and Life Sciences offer study abroad programs in Germany for qualified students in these colleges.

## OTHER OPPORTUNITIES FOR GERMAN STUDENTS

UW–Madison students interested in international internships should visit the website of the International Internship Program (<http://internships.international.wisc.edu>).

The German-language immersion dormitory, Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch>), is located in Richardson House in Adams Hall, one of the Lakeshore dorms. Undergraduate students live and speak German together with a resident native speaker of German. Contact the German program for applications and details.

Other regular student activities include film screenings and lectures as well as informal, conversation-oriented Kaffeestunde, Stammtisch, Dutch Table, and the German Club. For additional information, contact the German program.

## OFFERINGS IN DUTCH STUDIES

Course offerings in Dutch include five semesters of language instruction as well as courses in the literature and culture of the Low Countries. Courses in Dutch language satisfy the L&S foreign language requirement, while courses in Dutch literature and culture carry literature and humanities credits, respectively. Dutch literature is also offered under Literature in Translation.

A major in Dutch studies is not yet established at UW–Madison, but interested students are encouraged to pursue an individual major in the field. In addition to the study of language, literature, and culture, this could entail coursework in art history, geography, history, sociology, and so on. Courses taken in the study abroad program in Utrecht can also be applied to an individual major in Dutch studies.

## HOW TO GET IN

### DECLARING THE MAJOR IN GERMAN

A student may declare the major in German at any time by consulting with the German program's undergraduate advisor.

### PREREQUISITES FOR THE MAJOR IN GERMAN

A total of 9 credits of language coursework at the third-year (post-204, "2xx") level is required for the German major.

Select one of the following options:

Code	Title	Credits
<b>Option 1:</b>		
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading <sup>1</sup>	3
GERMAN 262	Intermediate German-Writing <sup>1</sup>	3
<b>Option 2:</b>		
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 274	Introduction to German Literature <sup>1</sup>	6
or GERMAN 284	Honors Introduction to German Literature	
<b>Total Credits</b>		<b>9</b>

<sup>1</sup> Students may not receive credit for both GERMAN 258 or GERMAN 262 and GERMAN 274 or GERMAN 284.

Third-year German language courses (GERMAN 249, GERMAN 258, GERMAN 262, GERMAN 274, GERMAN 284) are not sequenced; they may be taken in any order and/or simultaneously. Note that GERMAN 274 and GERMAN 284, which are 6-credit courses, count as the equivalent of GERMAN 258 Intermediate German-Reading and GERMAN 262. If a student takes GERMAN 274 or GERMAN 284, only GERMAN 249 may be taken for the remaining 3 credits of prerequisite coursework.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR IN GERMAN

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
<b>Select a minimum of 27 advanced-level credits in German or cognate courses (maximum of 9), to include the following:</b>		
GERMAN 337	Advanced Composition & Conversation	3
GERMAN 676	Advanced Seminar in German Studies (GERMAN 676 and GERMAN 677 must be taken on the Madison campus.)	3
	or GERMAN 677 Seminar in German Culture Studies	
Twenty-one (21) additional advanced-level German credits are required, including a maximum of 9 credits from cognate courses. A minimum of 6 advanced-level German credits, to include the capstone seminar (GERMAN 676 or GERMAN 677), must be taken on the Madison campus.		21
Total Credits		27

### Residence and Quality of Work

2.000 GPA in all GERMAN courses and courses counting toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in GERMAN, taken on campus

<sup>1</sup> Any GERMAN course numbered 300 or higher will count toward this requirement with the *exception* of these Dutch and graduate-level courses: GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314, GERMAN 325, GERMAN 335, GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, and GERMAN 404.

### Cognate Courses

Up to 9 of the 27 advanced-level credits required for the German major may come from cognate courses. These are courses with German-related subject matter that are taught in English either in the German program or in other departments, such as Anthropology, Art History, Business, Communication Arts, Folklore, Geography, History, Jewish Studies, Medieval Studies, Music, Philosophy, Political Science, Sociology, Theatre and Drama, and Urban and Regional Planning. Cognate courses taken in the German program may be at the elementary, advanced, or intermediate levels; those taken in other departments must be at the advanced level (numbered 300 or higher) only. Any questions about which courses may be counted as cognate courses may be directed to the undergraduate advisor.

### Study Abroad Coursework

Courses taken on a UW-Madison sponsored study abroad program count as "in residence." Advanced-level courses for which there is no direct UW-Madison equivalent will appear on a student's transcript as GERMAN 367 Study Abroad in German Literature, GERMAN 368 Study

Abroad in German Culture, or GERMAN 369 Study Abroad in German Linguistics.

### On Campus Requirements

A minimum of 6 credits of advanced-level German coursework must be taken on the Madison campus (i.e., not on a study abroad program). The capstone seminar, GERMAN 676 Advanced Seminar in German Studies or GERMAN 677 Seminar in German Culture Studies, must be taken on the Madison campus.

### Senior Thesis

Any student who wishes to write a senior thesis may do so under the direction of a professor. Planning with the student's major advisor or the directing professor should begin in the student's junior year.

## LEVEL AND CLASSIFICATION OF GERMAN COURSES WITH REGARD TO L&S DEGREE REQUIREMENTS

German courses at the 100 level are regarded by the department as elementary, courses at the 200 level as intermediate, and courses at the 300 level or above as advanced.

Exceptions are:

- the following are regarded as elementary (E)

Code	Title	Credits
GERMAN 236	Bascom Course	3
GERMAN 245	Topics in Dutch Life and Culture	3
GERMAN 266	Topics in German and/or Yiddish Culture	3
GERMAN/JEWISH/LITTRANS 269	Yiddish Literature and Culture in Europe	3
GERMAN 272	Nazi Culture	3
GERMAN 278	Topics in German Culture	3

- the following are regarded as intermediate/advanced (D)

Code	Title	Credits
GERMAN 235	Dutch Conversation and Composition	3
GERMAN/JEWISH 267	Yiddish Song and the Jewish Experience	3-4
GERMAN 271	The German Immigration Experience	3
GERMAN/LITTRANS 276	Special Topics in German and World Literature/s	3
GERMAN/JEWISH/LITTRANS 279	Yiddish Literature and Culture in America	3
GERMAN 325	Topics in Dutch Literature	3
GERMAN 335	Dutch Conversation and Composition	3

All courses in German literature numbered 258 or higher may be applied toward the L&S humanities/literature requirement. GERMAN 676 Advanced Seminar in German Studies, German linguistics courses numbered 351 or above, and the German or Dutch culture courses numbered 245 or above may be applied toward the L&S humanities breadth requirement. GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, and GERMAN 404 are for graduate students and not applicable to the German major or L&S degree requirements. GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314,

and GERMAN 325 are Dutch-language courses for graduate students and not applicable to the German major or L&S degree requirements.

## PLACEMENT

GERMAN 101 First Semester German and GERMAN 111 First Semester Dutch are beginning courses and require no previous training.

The following are open to freshmen with sufficient preparation in German or Dutch:

Code	Title	Credits
GERMAN 102	Second Semester German	4
GERMAN 112	Second Semester Dutch	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4
GERMAN 213	Third Semester Dutch	4
GERMAN 214	Fourth Semester Dutch	4
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading	3
GERMAN 262	Intermediate German-Writing	3
GERMAN 274	Introduction to German Literature	6
GERMAN 284	Honors Introduction to German Literature	6

Placement testing is advised for students entering from high school. Placement in more advanced courses is arranged on the basis of records and tests. Consult the German programs's placement advisor with any questions.

## RETROACTIVE CREDITS

Retroactive credits (aka "retro credits") are credits granted in recognition of previous language study in high school. Retro credits earned at UW–Madison do correspond to particular courses, but the credits are not graded and do not factor into a student's grade point average. The course taken to earn retro credits for German language coursework must be the student's first college course in German or Dutch; it must be taken before earning 30 degree credits (not including advanced-placement credits); and the student must earn at least a B in the course. The following courses may be taken to earn retro credits.

Code	Title	Credits
4 credits earned for prerequisite work:		4
GERMAN 102 & GERMAN 112	Second Semester German and Second Semester Dutch	
8 credits earned for prerequisite work:		8
GERMAN 203 or GERMAN 213	Third Semester German or Third Semester Dutch	
12 credits earned for prerequisite work:		12
GERMAN 204 & GERMAN 214	Fourth Semester German and Fourth Semester Dutch	
16 credits earned for prerequisite work:		16
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 258	Intermediate German-Reading	
GERMAN 262	Intermediate German-Writing	
GERMAN 274	Introduction to German Literature	

GERMAN 284	Honors Introduction to German Literature
or GERMAN 337 Advanced Composition & Conversation	

Consult the German program's placement advisor or see Retroactive Credits (<http://languages.wisc.edu/advising/retro>) for more information on retro credits.

## SEQUENCE OF ELEMENTARY AND INTERMEDIATE COURSES

The regular German sequence consists of:

Code	Title	Credits
GERMAN 101	First Semester German	4
GERMAN 102	Second Semester German	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4

After GERMAN 204, students may continue in any of the intermediate courses:

Code	Title	Credits
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading	3
GERMAN 262	Intermediate German-Writing	3
GERMAN 274 or GERMAN 284	Introduction to German Literature or Honors Introduction to German Literature	6

Intermediate courses may be taken in any sequence and simultaneously; however, GERMAN 274/GERMAN 284 counts as the equivalent of GERMAN 258 and GERMAN 262, so students may receive credit for either of the following:

Code	Title	Credits
GERMAN 258 & GERMAN 262	Intermediate German-Reading and Intermediate German-Writing	6
GERMAN 274 or GERMAN 284	Introduction to German Literature or Honors Introduction to German Literature	6

The prerequisites for most advanced-level courses in German are:

Code	Title	Credits
Select one of the following options:		9
Option 1:		
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 258	Intermediate German-Reading	
GERMAN 262	Intermediate German-Writing	
Option 2:		
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 274 or GERMAN 284	Introduction to German Literature or Honors Introduction to German Literature	

## ADVANCED COURSES

All 300-level and 400-level courses, with the exception of language courses for graduate students<sup>1</sup>, are open to undergraduate students who have completed appropriate prerequisites on the intermediate level. The

600-level courses are open to seniors as well as other students who have completed the listed prerequisites. The 700-level courses are open only to seniors with a 3.500 GPA, permission of the instructor, and permission of the L&S dean.

### 300-400 level exceptions

These courses are not open to undergraduate students.

Code	Title	Credits
GERMAN 311	First Semester Dutch for Graduate Students	3
GERMAN 312	Second Semester Dutch for Graduate Students	3
GERMAN 313	Third Semester Dutch for Graduate Students	3
GERMAN 314	Fourth Semester Dutch for Graduate Students	3
GERMAN 391	German for Graduate Reading Knowledge I	3
GERMAN 392	German for Graduate Reading Knowledge II	3
GERMAN 401	First-Semester German for Graduate Students	3
GERMAN 402	Second-Semester German for Graduate Students	3
GERMAN 403	Third-Semester German for Graduate Students	3
GERMAN 404	Fourth-Semester German for Graduate Students	3

## HONORS IN THE MAJOR

Students may declare Honors in the German Major in consultation with the German undergraduate advisor.

### HONORS IN THE GERMAN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in German students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 in all advanced-level GERMAN courses
- Complete 29 advanced-level credits in German, 20 of which must be taken for Honors, to include:

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation (for honors credit)	3
GERMAN 676	Advanced Seminar in German Studies (for honors credit)	3
GERMAN 677	Seminar in German Culture Studies	3
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	6

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

## ADVISING AND CAREERS

Any questions regarding advising or placement in German or Dutch may be directed to the undergraduate advisors for these programs:

Mark L. Loudon, Undergraduate German Advisor  
mllouden@wisc.edu  
802 Van Hise Hall

Jeanne M. Schueller, German Language Program Coordinator and Placement Advisor  
jmschuel@wisc.edu  
806 Van Hise Hall

Jolanda Vanderwal Taylor, Undergraduate Dutch Advisor  
jvtaylor@wisc.edu  
608-262-5790  
808 Van Hise Hall

For other undergraduate concerns, please contact the undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
undergrad@gns.wisc.edu  
608-262-2090  
1306 Van Hise Hall

For advising on careers related to German, Dutch, and other languages, contact:

Michael Kruse  
International Directions Advisor  
Language Institute  
mkruse@wisc.edu

For additional career advising, contact:

Letters & Science Career Initiative & Career Services

1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
 http://careers.ls.wisc.edu/

## PEOPLE

Professors Hans Adler, Monika Chavez, Sabine Gross, Rob Howell, Mark Loudon, B. Venkat Mani, Pamela Potter, Joe Salmons, Jolanda Vanderwal Taylor

Associate Professors Salvatore Calomino, Sonja Klocke, Sabine Moedersheim

Assistant Professors Hannah V. Eldridge, Philip Hollander, Weijia Li, Sunny Yudkoff

Faculty Associate Jeanne Schueller

## GERMAN, CERTIFICATE

The certificate in German offers students the opportunity to develop proficiency in German, thereby complementing major(s) in other subjects across the university. It also strengthens the applications of students who intend to pursue careers or graduate study in areas where knowledge of German is useful. The certificate in German is open to all undergraduate students, including Special students who may already have completed majors and earned degrees.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The certificate in German requires **15 credits of GERMAN** coursework beyond GERMAN 204 Fourth Semester German, to include at least two courses from the 300 level or higher (excluding Dutch courses). All courses presented for the certificate in German must be taught in German.

Additional credits in GERMAN to reach the 15 credits required. Select from:

Code	Title	Credits
GERMAN 249	Intermediate German - Speaking and Listening	3
GERMAN 258	Intermediate German-Reading	3
GERMAN 262	Intermediate German-Writing	3
GERMAN 274 or GERMAN 284	Introduction to German Literature Honors Introduction to German Literature	6
GERMAN 300-599 (excluding any Dutch courses per above)		

### RESIDENCE AND QUALITY OF WORK

Of the 15 credits required, 8 credits must be in residence.

A 2.000 cumulative GPA in all courses eligible for the certificate is required.

Pass/fail courses may not apply to the certificate.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising questions related to the certificate in German, contact the German program undergraduate advisor:

Mark L. Loudon, Undergraduate German Advisor  
 mlloudon@wisc.edu  
 802 Van Hise

For questions regarding placement in German language courses, contact the German language program coordinator and placement advisor:

Jeanne M. Schueller, German Language Program Coordinator and Placement Advisor  
 jmschuel@wisc.edu  
 806 Van Hise

For other undergraduate concerns, please contact our undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For advising on careers related to German, Dutch, and other languages, contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu

For additional career advising, contact:

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
 http://careers.ls.wisc.edu/

## PEOPLE

Professors Hans Adler, Monika Chavez, Sabine Gross, Rob Howell, Mark Loudon, B. Venkat Mani, Pamela Potter, Joe Salmons, Jolanda Vanderwal Taylor

Associate Professors Salvatore Calomino, Sonja Klocke, Sabine Moedersheim

Assistant Professors Hannah V. Eldridge, Philip Hollander, Weijia Li, Sunny Yudkoff

Faculty Associate Jeanne Schueller

## POLISH, B.A.

Elementary courses in Russian and Polish are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Russian or Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. Students should speak with their instructor regarding retroactive credits during the first week of class.

## HOW TO GET IN

To declare a major in Polish, students should make an appointment with the undergraduate advisor (atumarki@wisc.edu), or call 608-262-3498.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>1. The Polish major requires 9 credits in Polish-language courses above Fourth Semester Polish (SLAVIC 208) taken from:</b>		9
SLAVIC 277	Third Year Polish I	
SLAVIC 278	Third Year Polish II	
SLAVIC 331	Fourth Year Polish I	
SLAVIC 332	Fourth Year Polish II	
<b>2. 6 credits in Polish literature in translation:</b>		6
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	

LITTRANS 473	Polish Literature (in Translation) since 1863	
<b>3. 9 credits in literature in the original language and culture and area studies:</b> <sup>1</sup>		9
SLAVIC 302	Zarys historii literatury polskiej <sup>2</sup>	
SLAVIC 245	Topics in Slavic Literatures <sup>3</sup>	
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
LITTRANS 229	Representation of the Jew in Eastern European Cultures	
LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation <sup>3</sup>	
HISTORY 425	History of Poland and the Baltic Area	
Total Credits		24

<sup>1</sup> Other courses related to Poland may count, with the approval of the advisor, including courses taken abroad on Polish history, society, politics, economy and so forth.

<sup>2</sup> SLAVIC 302 Zarys historii literatury polskiej is taught in Polish.

<sup>3</sup> SLAVIC 245 Topics in Slavic Literatures and LITTRANS 247 Topics in Slavic Literatures in Translation are topics courses and the topic must be approved by the advisor for the Polish major for credit toward the major.

## L&S RESIDENCE AND QUALITY OF WORK

2.000 GPA in all courses counting in the major

2.000 GPA on 15 upper-level major credits taken in residence<sup>4</sup>

15 credits in the major taken on the UW–Madison campus

### <sup>4</sup> Upper-Level Courses

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC 307	Study Abroad in Poland	1-4
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3
HISTORY 425	History of Poland and the Baltic Area	3-4
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3

LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3

<sup>4</sup> The following courses count as upper level in the major: SLAVIC 277, SLAVIC 278, SLAVIC 302, SLAVIC 307, SLAVIC 308, SLAVIC 331, SLAVIC 332, SLAVIC 423, SLAVIC 444, SLAVIC 470, SLAVIC 472, HISTORY 425, LITTRANS 215, LITTRANS 471, LITTRANS 216, LITTRANS 473

## DISTINCTION IN THE MAJOR IN POLISH

With the permission of the Polish honors advisor (atumarki@wisc.edu), students who are not in any of the honors programs may work toward Distinction in the Major in Polish. Distinction in the Major may be granted for any student who has a 3.500 grade point average in the major, and who has submitted an acceptable senior thesis.

## HONORS IN THE MAJOR

Students may declare Honors in the Polish Major in consultation with the Polish Honors Advisor (atumarki@wisc.edu).

## HONORS IN THE POLISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Polish students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete 15 credits in SLAVIC, taken for Honors, with individual course grades of B or better, to include:
- 9 credits above SLAVIC 208 Fourth Semester Polish, chosen from the following list<sup>1</sup>:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 301	Introduction to Intensive Polish	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3

- A two-semester Senior Honors Thesis in SLAVIC 681 Senior Honors Thesis and SLAVIC 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> This requirement may be waived for students who take some of these courses while studying abroad in Poland.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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



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

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

Letters & Science Career Initiative & Career Services  
1305 Linden Drive, Suite 205  
Madison, WI 53706  
608-262-3921  
careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors David Danaher, Alexander Dolinin, Karen Evans-Romaine, Halina Filipowicz, Tomislav Longinovic, Irina Shevelenko, Manon van de Water

Associate Professor Andrew Reynolds

Assistant Professor Marina Zilbergerts

Faculty Associates Jennifer Tishler, Anna Tumarkin

Senior Lecturers Galina Lapina, Ewa Miernowska

Lecturer Alexandra Walter

## LEARNING OUTCOMES

1. Polish language proficiency: Students will develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Polish in a variety of social situations.
2. Students will develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Students will develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Students will be able to analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Students will demonstrate insight into Polish culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising in Russian or Polish contact our Russian and Polish undergraduate advisor Anna Tumarkin ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)).

For placement in Russian contact Anna Tumarkin ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)).

For placement in Polish contact Ewa Miernowska ([miernows@wisc.edu](mailto:miernows@wisc.edu)).

For information on the Russian Flagship Program contact Laura Weigel ([leweigel@wisc.edu](mailto:leweigel@wisc.edu)) or visit their program page (<https://russianflagship.wisc.edu>).

For other undergraduate concerns, please contact our Undergraduate Coordinator:

Bridget Sutton, Undergraduate Coordinator  
[undergrad@gns.wisc.edu](mailto:undergrad@gns.wisc.edu)  
608-262-2090  
1306 Van Hise

For additional career advising please contact:

Michael Kruse  
International Directions Advisor  
Language Institute  
[mkruse@wisc.edu](mailto:mkruse@wisc.edu)

## POLISH, B.S.

Elementary courses in Russian and Polish are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Russian or Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. Students should speak with their instructor regarding retroactive credits during the first week of class.

## HOW TO GET IN

To declare a major in Polish, students should make an appointment with the undergraduate advisor ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)), or call 608-262-3498.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>1. The Polish major requires 9 credits in Polish-language courses above Fourth Semester Polish (SLAVIC 208) taken from:</b>		9
SLAVIC 277	Third Year Polish I	
SLAVIC 278	Third Year Polish II	
SLAVIC 331	Fourth Year Polish I	
SLAVIC 332	Fourth Year Polish II	
<b>2. 6 credits in Polish literature in translation:</b>		6
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	
LITTRANS 473	Polish Literature (in Translation) since 1863	
<b>3. 9 credits in literature in the original language and culture and area studies:</b> <sup>1</sup>		9
SLAVIC 302	Zarys historii literatury polskiej <sup>2</sup>	
SLAVIC 245	Topics in Slavic Literatures <sup>3</sup>	
SLAVIC/GEOG/HISTORY/POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
LITTRANS 229	Representation of the Jew in Eastern European Cultures	
LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation <sup>3</sup>	
HISTORY 425	History of Poland and the Baltic Area	
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Other courses related to Poland may count, with the approval of the advisor, including courses taken abroad on Polish history, society, politics, economy and so forth.

<sup>2</sup> SLAVIC 302 Zarys historii literatury polskiej is taught in Polish.

<sup>3</sup> SLAVIC 245 Topics in Slavic Literatures and LITTRANS 247 Topics in Slavic Literatures in Translation are topics courses and the topic must be approved by the advisor for the Polish major for credit toward the major.

### L&S RESIDENCE AND QUALITY OF WORK

2.000 GPA in all courses counting in the major

2.000 GPA on 15 upper-level major credits taken in residence<sup>4</sup>

15 credits in the major taken on the UW–Madison campus

#### <sup>4</sup> Upper-Level Courses

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC 307	Study Abroad in Poland	1-4
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3
HISTORY 425	History of Poland and the Baltic Area	3-4
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3

<sup>4</sup> The following courses count as upper level in the major: SLAVIC 277, SLAVIC 278, SLAVIC 302, SLAVIC 307, SLAVIC 308, SLAVIC 331, SLAVIC 332, SLAVIC 423, SLAVIC 444, SLAVIC 470, SLAVIC 472, HISTORY 425, LITTRANS 215, LITTRANS 471, LITTRANS 216, LITTRANS 473

### DISTINCTION IN THE MAJOR IN POLISH

With the permission of the Polish honors advisor (atemarki@wisc.edu), students who are not in any of the honors programs may work toward Distinction in the Major in Polish. Distinction in the Major may be granted for any student who has a 3.500 grade point average in the major, and who has submitted an acceptable senior thesis.

### HONORS IN THE MAJOR

Students may declare Honors in the Polish Major in consultation with the Polish Honors Advisor (atemarki@wisc.edu).

### HONORS IN THE POLISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Polish students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete 15 credits in SLAVIC, taken for Honors, with individual course grades of B or better, to include:
- 9 credits above SLAVIC 208 Fourth Semester Polish, chosen from the following list<sup>1</sup>:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3

SLAVIC 301	Introduction to Intensive Polish	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3

- A two-semester Senior Honors Thesis in SLAVIC 681 Senior Honors Thesis and SLAVIC 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> This requirement may be waived for students who take some of these courses while studying abroad in Poland.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Polish language proficiency: Students will develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Polish in a variety of social situations.
2. Students will develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Students will develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Students will be able to analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Students will demonstrate insight into Polish culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising in Russian or Polish contact our Russian and Polish undergraduate advisor Anna Tumarkin (atumarki@wisc.edu).

For placement in Russian contact Anna Tumarkin (atumarki@wisc.edu).

For placement in Polish contact Ewa Miernowska (miernows@wisc.edu).

For information on the Russian Flagship Program contact Laura Weigel (leweigel@wisc.edu) or visit their program page (<https://russianflagship.wisc.edu>).

For other undergraduate concerns, please contact our Undergraduate Coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For additional career advising please contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors David Danaher, Alexander Dolinin, Karen Evans-Romaine, Halina Filipowicz, Tomislav Longinovic, Irina Shevelenko, Manon van de Water

Associate Professor Andrew Reynolds

Assistant Professor Marina Zilbergerts

Faculty Associates Jennifer Tishler, Anna Tumarkin

Senior Lecturers Galina Lapina, Ewa Miernowska

Lecturer Alexandra Walter

## RUSSIAN, B.A.

Elementary courses in Russian and Polish are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Russian or Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. Students should speak with their instructor regarding retroactive credits during the first week of class.

## HOW TO GET IN

To declare a major in Russian, students should make an appointment with the Russian undergraduate advisor (atumarki@wisc.edu), or call 608-262-3498.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison** 30 credits in residence, overall

**Experience** 30 credits in residence after the 90th credit

**Minimum** 2.000 in all coursework at UW–Madison

**GPA** 2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

The Russian major requires **35 total credits**. The major may be completed through one of three program tracks:

1. Language and Literature track (p. 693)

2. Language and Civilization track (p. 694)

3. Russian for Native Speakers track (p. 694)

### LANGUAGE REQUIREMENT CORE

Code	Title	Credits
<b>All Russian majors require 20 credits in language courses above SLAVIC 204 Fourth Semester Russian, including:</b>		20
SLAVIC 275 & SLAVIC 276	Third Year Russian I and Third Year Russian II <sup>1</sup>	8
SLAVIC 315 & SLAVIC 316	Russian Language and Culture I and Russian Language and Culture II	4
SLAVIC 321 & SLAVIC 322	Fourth Year Russian I and Fourth Year Russian II	8

<sup>1</sup> Students may also take SLAVIC 279 Intensive Third Year Russian to satisfy the 3rd Year Russian I & II Requirement.

### MAJOR IN RUSSIAN: RUSSIAN LANGUAGE AND LITERATURE TRACK

In addition to the core 20 credits (p. 693) in advanced Russian language courses, the Russian Language and Literature track requires 16 credits.

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) <sup>1</sup>	
	or LITTRANS 23-Soviet Life and Culture Through Literature and Art (from 1917)	
<b>Two courses in Russian literature in translation for a total of 8 credits:</b>		8
LITTRANS 203 & LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation I and Survey of 19th and 20th Century Russian Literature in Translation II <sup>2,3</sup>	
<b>One 400-level course in Russian literature for 4 credits (after completing SLAVIC 276):</b>		4
SLAVIC 405	Women in Russian Literature	
	or SLAVIC 420 Chekhov	
	or SLAVIC 421 Gogol	
	or SLAVIC 422 Dostoevsky	
	or SLAVIC 424 Tolstoy	
	or SLAVIC 440 Soviet Literature	
<b>Total Credits</b>		16

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses.

<sup>2</sup> LITTRANS 203/LITTRANS 204 are open to freshmen; they may be used to meet the literature (humanities) breadth requirement. LITTRANS 203 and LITTRANS 204, in addition, fulfill the Communication Part B writing requirement. It is preferable to take these Literature in Translation courses in numerical sequence, though they may be taken out of sequence. Although LITTRANS 203/LITTRANS 204 count toward total credits required for the major, they also count as part of the 80 credits that must be earned outside the Russian program.

<sup>3</sup> Students who take LITTRANS 201 Survey of 19th and 20th Century Russian Literature in Translation I or LITTRANS 202 Survey of 19th and 20th Century Russian Literature in Translation II before declaring the major should consult with the advisor.

**Note:** Students majoring in Russian language and literature are eligible to earn the Certificate in Russian, East European, and Central Asia Studies (p. 875).

## MAJOR IN RUSSIAN: RUSSIAN LANGUAGE AND CIVILIZATION TRACK

In addition to the core 20 credits (p. 693) in advanced Russian language courses, the Russian Language and Civilization track requires 17 credits.

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) (if not used to fulfill the area studies requirement below) <sup>1</sup>	
	or LITTRANS 23.Soviet Life and Culture Through Literature and Art (from 1917)	
<b>One course in Russian civilization for 4 credits:</b>		4
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	
<b>Select 9 credits in area studies courses including any of the following or other courses as approved by the advisor:</b>		9
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) (if not used to fulfill the culture requirement above) <sup>1</sup>	
	or LITTRANS 23.Soviet Life and Culture Through Literature and Art (from 1917)	
COM ARTS 456	Russian and Soviet Film	
ECON 390	Contemporary Economic Issues (only when the topic focuses on Russia) <sup>2</sup>	
GEOG 353	Russia and the NIS-Topical Analysis	
HISTORY 417	History of Russia	
HISTORY 419	History of Soviet Russia	
HISTORY 420	Russian Social and Intellectual History	
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	
HISTORY 600	Advanced Seminar in History <sup>2</sup>	
POLI SCI 401	Selected Topics in Political Science <sup>2</sup>	
POLI SCI 534	Socialism and Transitions to the Market	
POLI SCI 334	Russian Politics	
SLAVIC 433	History of Russian Culture <sup>3</sup>	
SLAVIC 434	Contemporary Russian Culture <sup>3</sup>	
THEATRE/ SLAVIC 532	History of Russian Theatre	

And other courses as approved by the advisor.

Total Credits 17

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses. They have the prerequisite of sophomore standing or permission of the instructor. LITTRANS 233 and LITTRANS 234 can be taken to fulfill either the Russian culture requirement or part of the 9 credits of area studies, but the same course cannot be used to count for both requirements.

<sup>2</sup> These courses are eligible only when the topics course focuses on Russia.

<sup>3</sup> SLAVIC 433 and SLAVIC 434 are taught in Russian, and enrollment in these courses requires consent of the instructor.

Courses fulfilling this requirement may also be taken in study abroad in the UW–Madison study abroad program in Russia (consult with the major advisor for more information).

Area studies courses above count toward total credits required for the major and also count as part of the 80 credits that must be earned outside the Russian program (except for LITTRANS 233 Russian Life and Culture Through Literature and Art (to 1917)/LITTRANS 234 Soviet Life and Culture Through Literature and Art (from 1917)).

**Note:** Students majoring in Russian language and civilization are not eligible to earn the Certificate in Russian, Eastern European, and Central Asian Studies (p. 875) administered by the Center for Russia, East Europe, and Central Asia (CREECA), if they are focusing on Russia for the certificate. If they focus on Eastern Europe or Central Asia, they may also get the certificate.

## MAJOR IN RUSSIAN: RUSSIAN FOR NATIVE SPEAKERS TRACK

Students who are native speakers of Russian may elect a major in Russian. They are required to take 36 credits of courses in Russian language and literature.

Students electing this major must take SLAVIC 275 Third Year Russian I/SLAVIC 276 Third Year Russian II, SLAVIC 315 Russian Language and Culture I/SLAVIC 316 Russian Language and Culture II, and SLAVIC 321 Fourth Year Russian I/SLAVIC 322 Fourth Year Russian II unless they place out of these courses. If they place out of any of these courses, they must take *additional* credits in advanced Russian language and literature courses (courses numbered Slavic 400 and higher).

In addition to the core 20 credits (p. 693) in advanced Russian language courses, the Russian for Native Speakers track requires:

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) <sup>1</sup>	
	or LITTRANS 23.Soviet Life and Culture Through Literature and Art (from 1917)	
<b>Two courses in Russian literature in translation for a total of 8 credits:</b>		8
LITTRANS 203 & LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation I and Survey of 19th and 20th Century Russian Literature in Translation II	

**Select at least one 400-level Slavic course in Russian literature** 4

SLAVIC 405	Women in Russian Literature
or SLAVIC 420	Chekhov
or SLAVIC 421	Gogol
or SLAVIC 422	Dostoevsky
or SLAVIC 424	Tolstoy
or SLAVIC 440	Soviet Literature

Total Credits 16

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses. They have the prerequisite of sophomore standing or permission of the instructor.

**DISTINCTION IN THE MAJOR IN RUSSIAN**

With the permission of the Russian program honors advisor, students who are not in any of the honors programs may work toward Distinction in the Major in Russian. Distinction in the Major may be granted for any student who has a 3.500 grade point average in the major, and who has submitted an acceptable senior thesis.

**RESIDENCE AND QUALITY OF WORK**2.000 GPA in all courses counting toward the major<sup>1</sup>2.000 GPA on 15 upper-level credits for the major, taken in residence<sup>2</sup>15 credits, counting toward the major, taken on campus<sup>1</sup>**<sup>1</sup> Additional Courses that may count towards the Russian major**

The following courses also count toward the major GPA and count toward the 15 credits taken on campus requirement:

Code	Title	Credits
SLAVIC 101	First Semester Russian	4
SLAVIC 102	Second Semester Russian	4
SLAVIC 117	Intensive Second Year Russian	4
SLAVIC 118	Intensive Second Year Russian	4
SLAVIC 181	Russian Honors Tutorial for Slavic 101	1
SLAVIC 182	Russian Honors Tutorial for Slavic 102	1
SLAVIC 203	Third Semester Russian	4
SLAVIC 204	Fourth Semester Russian	4
SLAVIC 275	Third Year Russian I	3-4
SLAVIC 276	Third Year Russian II	3-4
SLAVIC 321	Fourth Year Russian I	4
SLAVIC 322	Fourth Year Russian II	4

**<sup>2</sup> Upper Level courses**

Code	Title	Credits
LITTRANS 221	Gogol in Translation	3-4
LITTRANS 222	Dostoevsky in Translation	3-4
SLAVIC 275 & SLAVIC 276	Third Year Russian I and Third Year Russian II	8
SLAVIC 276	Third Year Russian II	3-4
SLAVIC 309	Russian Area Studies on Study Abroad	1-4

SLAVIC 310	Topics in Russian: Study Abroad	1-6
SLAVIC 315 & SLAVIC 316	Russian Language and Culture I and Russian Language and Culture II	4
SLAVIC 316	Russian Language and Culture II	2
SLAVIC 321 & SLAVIC 322	Fourth Year Russian I and Fourth Year Russian II	8
SLAVIC 322	Fourth Year Russian II	4
SLAVIC 405	Women in Russian Literature	3-4
SLAVIC 420	Chekhov	3-4
SLAVIC 421	Gogol	3-4
SLAVIC 422	Dostoevsky	3-4
SLAVIC 424	Tolstoy	3-4
SLAVIC 440	Soviet Literature	3-4
SLAVIC/ THEATRE 532	History of Russian Theatre	3
SLAVIC 681	Senior Honors Thesis	3
SLAVIC 682	Senior Honors Thesis	3
SLAVIC 699	Directed Study	1-6

**HONORS IN THE MAJOR IN RUSSIAN**

Students may declare Honors in the Russian Major in consultation with the Russian Honors advisor (atumarki@wisc.edu).

**HONORS IN THE RUSSIAN MAJOR REQUIREMENTS**

To earn a B.A. or B.S. with Honors in the Major in Russian students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all SLAVIC courses beyond SLAVIC 204 Fourth Semester Russian
- Complete 20 credits, taken for Honors, with individual grades of B or better in each course, beyond SLAVIC 204 Fourth Semester Russian, to include:
  - SLAVIC 275 Third Year Russian I, SLAVIC 276 Third Year Russian II, SLAVIC 321 Fourth Year Russian I, and SLAVIC 322 Fourth Year Russian II <sup>1</sup>
  - A two-semester Senior Honors Thesis in SLAVIC 681 Senior Honors Thesis and SLAVIC 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Exceptions are often granted when students take these courses abroad or during a summer study program

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

International Directions Advisor  
Language Institute  
mkruse@wisc.edu

Letters & Science Career Initiative & Career Services  
1305 Linden Drive, Suite 205  
Madison, WI 53706  
608-262-3921  
careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Russian language proficiency: Students will develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Russian in a variety of social situations.
2. Students will develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Students will develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Language & Literature Track and Native Speaker Track: Students who complete this track will be able to analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Language & Civilization Track: Students who complete this track will demonstrate insight into Russian culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising in Russian or Polish contact our Russian and Polish undergraduate advisor Anna Tumarkin ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)).

For placement in Russian contact Anna Tumarkin ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)).

For placement in Polish contact Ewa Miernowska ([miernows@wisc.edu](mailto:miernows@wisc.edu)).

For information on the Russian Flagship Program contact Laura Weigel ([leweigel@wisc.edu](mailto:leweigel@wisc.edu)) or visit their program page (<https://russianflagship.wisc.edu>).

For other undergraduate concerns, please contact our Undergraduate Coordinator:

Bridget Sutton, Undergraduate Coordinator  
[undergrad@gns.wisc.edu](mailto:undergrad@gns.wisc.edu)  
608-262-2090  
1306 Van Hise

For additional career advising please contact:

Michael Kruse

## PEOPLE

Professors David Danaher, Alexander Dolinin, Karen Evans-Romaine, Halina Filipowicz, Tomislav Longinovic, Irina Shevelenko, Manon van de Water

Associate Professor Andrew Reynolds

Assistant Professor Marina Zilbergerts

Faculty Associates Jennifer Tishler, Anna Tumarkin

Senior Lecturers Galina Lapina, Ewa Miernowska

Lecturer Alexandra Walter

## RUSSIAN, B.S.

Elementary courses in Russian and Polish are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Russian or Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. Students should speak with their instructor regarding retroactive credits during the first week of class.

## HOW TO GET IN

To declare a major in Russian, students should make an appointment with the Russian undergraduate advisor ([atumarki@wisc.edu](mailto:atumarki@wisc.edu)), or call 608-262-3498.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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



needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The Russian major requires **35 total credits**. The major may be completed through one of three program tracks:

1. Language and Literature track (p. 697)
2. Language and Civilization track (p. 698)
3. Russian for Native Speakers track (p. 698)

### LANGUAGE REQUIREMENT CORE

Code	Title	Credits
<b>All Russian majors require 20 credits in language courses above SLAVIC 204 Fourth Semester Russian, including:</b>		20
SLAVIC 275 & SLAVIC 276	Third Year Russian I and Third Year Russian II <sup>1</sup>	8
SLAVIC 315 & SLAVIC 316	Russian Language and Culture I and Russian Language and Culture II	4
SLAVIC 321 & SLAVIC 322	Fourth Year Russian I and Fourth Year Russian II	8

<sup>1</sup> Students may also take SLAVIC 279 Intensive Third Year Russian to satisfy the 3rd Year Russian I & II Requirement.

### MAJOR IN RUSSIAN: RUSSIAN LANGUAGE AND LITERATURE TRACK

In addition to the core 20 credits (p. 697) in advanced Russian language courses, the Russian Language and Literature track requires 16 credits.

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) <sup>1</sup>	
	or LITTRANS 23: Soviet Life and Culture Through Literature and Art (from 1917)	
<b>Two courses in Russian literature in translation for a total of 8 credits:</b>		8
LITTRANS 203 & LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation I and Survey of 19th and 20th Century Russian Literature in Translation II <sup>2,3</sup>	
<b>One 400-level course in Russian literature for 4 credits (after completing SLAVIC 276):</b>		4
SLAVIC 405	Women in Russian Literature	
or SLAVIC 420	Chekhov	
or SLAVIC 421	Gogol	
or SLAVIC 422	Dostoevsky	
or SLAVIC 424	Tolstoy	

or SLAVIC 440 Soviet Literature	
Total Credits	16

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses.

<sup>2</sup> LITTRANS 203/LITTRANS 204 are open to freshmen; they may be used to meet the literature (humanities) breadth requirement. LITTRANS 203 and LITTRANS 204, in addition, fulfill the Communication Part B writing requirement. It is preferable to take these Literature in Translation courses in numerical sequence, though they may be taken out of sequence. Although LITTRANS 203/LITTRANS 204 count toward total credits required for the major, they also count as part of the 80 credits that must be earned outside the Russian program.

<sup>3</sup> Students who take LITTRANS 201 Survey of 19th and 20th Century Russian Literature in Translation I or LITTRANS 202 Survey of 19th and 20th Century Russian Literature in Translation II before declaring the major should consult with the advisor.

**Note:** Students majoring in Russian language and literature are eligible to earn the Certificate in Russian, East European, and Central Asia Studies (p. 875).

## MAJOR IN RUSSIAN: RUSSIAN LANGUAGE AND CIVILIZATION TRACK

In addition to the core 20 credits (p. 697) in advanced Russian language courses, the Russian Language and Civilization track requires 17 credits.

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) (if not used to fulfill the area studies requirement below) <sup>1</sup>	
	or LITTRANS 234: Soviet Life and Culture Through Literature and Art (from 1917)	
<b>One course in Russian civilization for 4 credits:</b>		4
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	
<b>Select 9 credits in area studies courses including any of the following or other courses as approved by the advisor:</b>		9
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) (if not used to fulfill the culture requirement above) <sup>1</sup>	
	or LITTRANS 234: Soviet Life and Culture Through Literature and Art (from 1917)	
COM ARTS 456	Russian and Soviet Film	
ECON 390	Contemporary Economic Issues (only when the topic focuses on Russia) <sup>2</sup>	
GEOG 353	Russia and the NIS-Topical Analysis	
HISTORY 417	History of Russia	
HISTORY 419	History of Soviet Russia	
HISTORY 420	Russian Social and Intellectual History	

HISTORY/CHICLA/	Latino History and Politics
POLI SCI 422	
HISTORY 600	Advanced Seminar in History <sup>2</sup>
POLI SCI 401	Selected Topics in Political Science <sup>2</sup>
POLI SCI 534	Socialism and Transitions to the Market
POLI SCI 334	Russian Politics
SLAVIC 433	History of Russian Culture <sup>3</sup>
SLAVIC 434	Contemporary Russian Culture <sup>3</sup>
THEATRE/ SLAVIC 532	History of Russian Theatre
And other courses as approved by the advisor.	
Total Credits	17

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses. They have the prerequisite of sophomore standing or permission of the instructor. LITTRANS 233 and LITTRANS 234 can be taken to fulfill either the Russian culture requirement or part of the 9 credits of area studies, but the same course cannot be used to count for both requirements.

<sup>2</sup> These courses are eligible only when the topics course focuses on Russia.

<sup>3</sup> SLAVIC 433 and SLAVIC 434 are taught in Russian, and enrollment in these courses requires consent of the instructor.

Courses fulfilling this requirement may also be taken in study abroad in the UW–Madison study abroad program in Russia (consult with the major advisor for more information).

Area studies courses above count toward total credits required for the major and also count as part of the 80 credits that must be earned outside the Russian program (except for LITTRANS 233 Russian Life and Culture Through Literature and Art (to 1917)/LITTRANS 234 Soviet Life and Culture Through Literature and Art (from 1917)).

**Note:** Students majoring in Russian language and civilization are not eligible to earn the Certificate in Russian, Eastern European, and Central Asian Studies (p. 875) administered by the Center for Russia, East Europe, and Central Asia (CREECA), if they are focusing on Russia for the certificate. If they focus on Eastern Europe or Central Asia, they may also get the certificate.

## MAJOR IN RUSSIAN: RUSSIAN FOR NATIVE SPEAKERS TRACK

Students who are native speakers of Russian may elect a major in Russian. They are required to take 36 credits of courses in Russian language and literature.

Students electing this major must take SLAVIC 275 Third Year Russian I/SLAVIC 276 Third Year Russian II, SLAVIC 315 Russian Language and Culture I/SLAVIC 316 Russian Language and Culture II, and SLAVIC 321 Fourth Year Russian I/SLAVIC 322 Fourth Year Russian II unless they place out of these courses. If they place out of any of these courses, they must take *additional* credits in advanced Russian language and literature courses (courses numbered Slavic 400 and higher).

In addition to the core 20 credits (p. 697) in advanced Russian language courses, the Russian for Native Speakers track requires:

Code	Title	Credits
<b>One course in Russian culture for 4 credits:</b>		4
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917) <sup>1</sup>	
or LITTRANS 234 Soviet Life and Culture Through Literature and Art (from 1917)		
<b>Two courses in Russian literature in translation for a total of 8 credits:</b>		8
LITTRANS 203 & LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation I and Survey of 19th and 20th Century Russian Literature in Translation II	
<b>Select at least one 400-level Slavic course in Russian literature</b>		4
SLAVIC 405	Women in Russian Literature	
or SLAVIC 420 Chekhov		
or SLAVIC 421 Gogol		
or SLAVIC 422 Dostoevsky		
or SLAVIC 424 Tolstoy		
or SLAVIC 440 Soviet Literature		
<b>Total Credits</b>		16

<sup>1</sup> LITTRANS 233 and LITTRANS 234 are not language courses. They have the prerequisite of sophomore standing or permission of the instructor.

## DISTINCTION IN THE MAJOR IN RUSSIAN

With the permission of the Russian program honors advisor, students who are not in any of the honors programs may work toward Distinction in the Major in Russian. Distinction in the Major may be granted for any student who has a 3.500 grade point average in the major, and who has submitted an acceptable senior thesis.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all courses counting toward the major<sup>1</sup>

2.000 GPA on 15 upper-level credits for the major, taken in residence<sup>2</sup>

15 credits, counting toward the major, taken on campus<sup>1</sup>

### <sup>1</sup> Additional Courses that may count towards the Russian major

The following courses also count toward the major GPA and count toward the 15 credits taken on campus requirement:

Code	Title	Credits
SLAVIC 101	First Semester Russian	4
SLAVIC 102	Second Semester Russian	4
SLAVIC 117	Intensive Second Year Russian	4
SLAVIC 118	Intensive Second Year Russian	4
SLAVIC 181	Russian Honors Tutorial for Slavic 101	1
SLAVIC 182	Russian Honors Tutorial for Slavic 102	1
SLAVIC 203	Third Semester Russian	4
SLAVIC 204	Fourth Semester Russian	4
SLAVIC 275	Third Year Russian I	3-4

SLAVIC 276	Third Year Russian II	3-4
SLAVIC 321	Fourth Year Russian I	4
SLAVIC 322	Fourth Year Russian II	4

## <sup>2</sup> Upper Level courses

Code	Title	Credits
LITTRANS 221	Gogol in Translation	3-4
LITTRANS 222	Dostoevsky in Translation	3-4
SLAVIC 275 & SLAVIC 276	Third Year Russian I and Third Year Russian II	8
SLAVIC 276	Third Year Russian II	3-4
SLAVIC 309	Russian Area Studies on Study Abroad	1-4
SLAVIC 310	Topics in Russian: Study Abroad	1-6
SLAVIC 315 & SLAVIC 316	Russian Language and Culture I and Russian Language and Culture II	4
SLAVIC 316	Russian Language and Culture II	2
SLAVIC 321 & SLAVIC 322	Fourth Year Russian I and Fourth Year Russian II	8
SLAVIC 322	Fourth Year Russian II	4
SLAVIC 405	Women in Russian Literature	3-4
SLAVIC 420	Chekhov	3-4
SLAVIC 421	Gogol	3-4
SLAVIC 422	Dostoevsky	3-4
SLAVIC 424	Tolstoy	3-4
SLAVIC 440	Soviet Literature	3-4
SLAVIC/ THEATRE 532	History of Russian Theatre	3
SLAVIC 681	Senior Honors Thesis	3
SLAVIC 682	Senior Honors Thesis	3
SLAVIC 699	Directed Study	1-6

## HONORS IN THE MAJOR IN RUSSIAN

Students may declare Honors in the Russian Major in consultation with the Russian Honors advisor (atumarki@wisc.edu).

### HONORS IN THE RUSSIAN MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Russian students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all SLAVIC courses beyond SLAVIC 204 Fourth Semester Russian
- Complete 20 credits, taken for Honors, with individual grades of B or better in each course, beyond SLAVIC 204 Fourth Semester Russian, to include:
  - SLAVIC 275 Third Year Russian I, SLAVIC 276 Third Year Russian II, SLAVIC 321 Fourth Year Russian I, and SLAVIC 322 Fourth Year Russian II <sup>1</sup>
  - A two-semester Senior Honors Thesis in SLAVIC 681 Senior Honors Thesis and SLAVIC 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Exceptions are often granted when students take these courses abroad or during a summer study program

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Russian language proficiency: Students will develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Russian in a variety of social situations.
2. Students will develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Students will develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Language & Literature Track and Native Speaker Track: Students who complete this track will be able to analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Language & Civilization Track: Students who complete this track will demonstrate insight into Russian culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising in Russian or Polish contact our Russian and Polish undergraduate advisor Anna Tumarkin (atumarki@wisc.edu).

For placement in Russian contact Anna Tumarkin (atumarki@wisc.edu).

For placement in Polish contact Ewa Miernowska (miernows@wisc.edu).

For information on the Russian Flagship Program contact Laura Weigel (leweigel@wisc.edu) or visit their program page (<https://russianflagship.wisc.edu>).

For other undergraduate concerns, please contact our Undergraduate Coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For additional career advising please contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors David Danaher, Alexander Dolinin, Karen Evans-Romaine, Halina Filipowicz, Tomislav Longinovic, Irina Shevelenko, Manon van de Water

Associate Professor Andrew Reynolds

Assistant Professor Marina Zilbergerts

Faculty Associates Jennifer Tishler, Anna Tumarkin

Senior Lecturers Galina Lapina, Ewa Miernowska

Lecturer Alexandra Walter

## SCANDINAVIAN STUDIES, B.A.

The Scandinavian studies program provides the opportunity to learn a Scandinavian language or Finnish (modern Icelandic only occasionally). The literature, folklore, and culture of the Nordic countries are taught both in the original languages and in English translation. Partly in cooperation with other departments, courses in Scandinavian area studies are offered (history, social institutions, geography, art, archaeology). Students who major in the field may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available. Students who transfer to this university after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

**Note:** SCAND ST 301 Intensive Finnish I and SCAND ST 302 Intensive Finnish II each count as 2 units of foreign language for the purpose of meeting the College of Letters & Science foreign language requirement.

**Majors should see the advisor during the semester before their last semester.** Prospective majors are urged to consult the undergraduate advisor about their program at the first possible opportunity.

## HOW TO GET IN

Student interested in pursuing an undergraduate major in Scandinavian studies should contact the advisor about declaring the major.

### ADVISOR

Nete Schmidt  
1368 Van Hise  
608-262-2128  
aschmidt2@wisc.edu

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

1. The **fifth-unit Scandinavian language**, 1 course from:

Code	Title	Credits
SCAND ST 251	Readings in Norwegian Literature	
SCAND ST 261	Readings in Swedish Literature	
SCAND ST 271	Readings in Danish Literature	

2. **18 credits of Scandinavian studies from these two areas, with at least one course taken from each area:**

#### A. LANGUAGE, CULTURE AND HISTORY

Code	Title	Credits
SCAND ST 401	Contemporary Scandinavian Languages	
SCAND ST 405	Nynorsk sprak og kultur	

SCAND ST/ MEDIEVAL 407	Old Norse	SCAND ST 421	Scandinavian Topics in Depth (1 Norwegian-American Folksong)
SCAND ST/ MEDIEVAL 408	Old Norse	SCAND ST 421	Scandinavian Topics in Depth (2 Finnish-American Folksong)
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	SCAND ST 421	Scandinavian Topics in Depth (4 Hagiography in the North)
SCAND ST 410	Introduction to Scandinavian Linguistics	SCAND ST 422	The Drama of Henrik Ibsen
SCAND ST 411	Areas in Scandinavian Literature	SCAND ST 423	The Drama of August Strindberg
SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	SCAND ST 424	Nineteenth-Century Scandinavian Fiction
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel
SCAND ST 429	Mythology of Scandinavia	SCAND ST 426	Kierkegaard and Scandinavian Literature
SCAND ST/ MEDIEVAL 430	The Vikings	SCAND ST 427	Contemporary Scandinavian Literature
SCAND ST/ HISTORY 431	History of Scandinavia to 1815	SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
SCAND ST 433	The Scandinavian Tale and Ballad	SCAND ST 436	Topics in Scandinavian Literature
SCAND ST 435	The Icelandic Sagas	SCAND ST 437	Modern Scandinavian Drama
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	SCAND ST 450	Scandinavian Decadence in its European Context
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	SCAND ST 501	Tal Och Skrift
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	SCAND ST 520	Special Topics
SCAND ST 466	Greenland - Past, Present, and Future	SCAND ST 634	Survey of Scandinavian Literature: 1500-1800
SCAND ST 476	Scandinavian Life and Civilization II	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
SCAND ST 496	The Scandinavian Heritage in America	SCAND ST 636	Survey of Scandinavian Literature: 1890-1920
SCAND ST 510	Topics in Scandinavian Linguistics		
SCAND ST 511	Paleography and Philology - Old Norse		
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History		
SCAND ST 630	Fundamentals of Bibliography and Research		

## B. SCANDINAVIAN LITERATURE

Code	Title	Credits
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	
SCAND ST 419	Scandinavian Children's Literature	
SCAND ST 420	The Woman in Scandinavian Literature	

## L&S REQUIREMENTS FOR RESIDENCE AND QUALITY OF WORK IN THE MAJOR:

1. 2.000 GPA in all SCAND ST courses, and all courses accepted in the major
2. 2.000 GPA on at least 15 credits of upper-level work in the major: SCAND ST373 through 699
3. 15 credits in SCAND ST taken on campus (and not through a UW-Madison Study Abroad program)

## HONORS IN THE MAJOR

Students may declare Honors in the Scandinavian Studies Major in consultation with the Scandinavian Studies advisor(s).

## HONORS IN THE SCANDINAVIAN STUDIES MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Scandinavian Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 for all SCAND ST courses, and all courses accepted in the major

- 8 Honors credits numbered SCAND ST 373 and higher
- 1 Survey of Scandinavian Literature series from the following:

Code	Title	Credits
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
SCAND ST 636	Survey of Scandinavian Literature: 1890-1920	3

- A two-semester Senior Honors Thesis in SCAND ST 681 and SCAND ST 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Reach Intermediate-High / Advanced-Low language proficiency in speaking, reading, and writing, according to ACTFL guidelines, through five semesters of a Nordic language.
2. Familiarize the students with three Nordic languages (Danish, Norwegian, and Swedish) to complement their knowledge of their chosen language via the 6th semester Scandinavian Language class (401).
3. Demonstrate understanding in a global context in a field of study covering literature, history, area studies, folklore, or philology classes.
4. Select and utilize the most appropriate methods of study and inquiry within the content of the classes taken.
5. Evaluate and respond to information pertaining to the classes taken, showing clear analytical and critical thinking skills.
6. Communicate clearly in appropriate ways in the classes taken.
7. If possible, benefit from a semester or year's study abroad leading to a consolidation and enhancement of the above mentioned skills.
8. Recognize and apply principles of ethical and professional conduct.

## ADVISING AND CAREERS

For advising and placement in Scandinavian studies contact our undergraduate advisor:

Nete Schmidt, Scandinavian Studies Undergraduate Advisor  
 aschmidt2@wisc.edu  
 1368 Van Hise

For other undergraduate concerns, please contact our undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For additional career advising please contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu  
<http://languages.wisc.edu/languageadvising>

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors Susan Brantly, Thomas DuBois, Kirsten Wolf

Assistant Professor Dean Krouk

Faculty Associates Scott A. Mellor, Nete Schmidt

Senior Lecturer Peggy Hager

Associate Lecturer Todd Michelson-Ambelang

## SCANDINAVIAN STUDIES, B.S.

The Scandinavian studies program provides the opportunity to learn a Scandinavian language or Finnish (modern Icelandic only occasionally). The literature, folklore, and culture of the Nordic countries are taught both in the original languages and in English translation. Partly in cooperation with other departments, courses in Scandinavian area studies are offered (history, social institutions, geography, art, archaeology). Students who major in the field may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available. Students who transfer to this university after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

**Note:** SCAND ST 301 Intensive Finnish I and SCAND ST 302 Intensive Finnish II each count as 2 units of foreign language for the purpose of meeting the College of Letters & Science foreign language requirement.

**Majors should see the advisor during the semester before their last semester.** Prospective majors are urged to consult the undergraduate advisor about their program at the first possible opportunity.

## HOW TO GET IN

Student interested in pursuing an undergraduate major in Scandinavian studies should contact the advisor about declaring the major.

### ADVISOR

Nete Schmidt  
1368 Van Hise  
608-262-2128  
aschmidt2@wisc.edu

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

1. The **fifth-unit Scandinavian language**, 1 course from:

Code	Title	Credits
SCAND ST 251	Readings in Norwegian Literature	
SCAND ST 261	Readings in Swedish Literature	
SCAND ST 271	Readings in Danish Literature	

2. **18 credits of Scandinavian studies from these two areas, with at least one course taken from each area:**

#### A. LANGUAGE, CULTURE AND HISTORY

Code	Title	Credits
SCAND ST 401	Contemporary Scandinavian Languages	
SCAND ST 405	Nynorsk språk og kultur	
SCAND ST/ MEDIEVAL 407	Old Norse	



SCAND ST/ MEDIEVAL 408	Old Norse
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature
SCAND ST 410	Introduction to Scandinavian Linguistics
SCAND ST 411	Areas in Scandinavian Literature
SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages
SCAND ST 429	Mythology of Scandinavia
SCAND ST/ MEDIEVAL 430	The Vikings
SCAND ST/ HISTORY 431	History of Scandinavia to 1815
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
SCAND ST 433	The Scandinavian Tale and Ballad
SCAND ST 435	The Icelandic Sagas
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations
SCAND ST 466	Greenland - Past, Present, and Future
SCAND ST 476	Scandinavian Life and Civilization II
SCAND ST 496	The Scandinavian Heritage in America
SCAND ST 510	Topics in Scandinavian Linguistics
SCAND ST 511	Paleography and Philology - Old Norse
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
SCAND ST 630	Fundamentals of Bibliography and Research

## B. SCANDINAVIAN LITERATURE

Code	Title	Credits
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	
SCAND ST 419	Scandinavian Children's Literature	
SCAND ST 420	The Woman in Scandinavian Literature	
SCAND ST 421	Scandinavian Topics in Depth (1 Norwegian-American Folksong)	

SCAND ST 421	Scandinavian Topics in Depth (2 Finnish-American Folksong)
SCAND ST 421	Scandinavian Topics in Depth (4 Hagiography in the North)
SCAND ST 422	The Drama of Henrik Ibsen
SCAND ST 423	The Drama of August Strindberg
SCAND ST 424	Nineteenth-Century Scandinavian Fiction
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel
SCAND ST 426	Kierkegaard and Scandinavian Literature
SCAND ST 427	Contemporary Scandinavian Literature
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
SCAND ST 436	Topics in Scandinavian Literature
SCAND ST 437	Modern Scandinavian Drama
SCAND ST 450	Scandinavian Decadence in its European Context
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors
SCAND ST 501	Tal Och Skrift
SCAND ST 520	Special Topics
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
SCAND ST 636	Survey of Scandinavian Literature: 1890-1920

## L&S REQUIREMENTS FOR RESIDENCE AND QUALITY OF WORK IN THE MAJOR:

- 2.000 GPA in all SCAND ST courses, and all courses accepted in the major
- 2.000 GPA on at least 15 credits of upper-level work in the major: SCAND ST373 through 699
- 15 credits in SCAND ST taken on campus (and not through a UW-Madison Study Abroad program)

## HONORS IN THE MAJOR

Students may declare Honors in the Scandinavian Studies Major in consultation with the Scandinavian Studies advisor(s).

## HONORS IN THE SCANDINAVIAN STUDIES MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Scandinavian Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 for all SCAND ST courses, and all courses accepted in the major
- 8 Honors credits numbered SCAND ST 373 and higher

- 1 Survey of Scandinavian Literature series from the following:

Code	Title	Credits
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
SCAND ST 636	Survey of Scandinavian Literature: 1890-1920	3

- A two-semester Senior Honors Thesis in SCAND ST 681 and SCAND ST 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Reach Intermediate-High / Advanced-Low language proficiency in speaking, reading, and writing, according to ACTFL guidelines, through five semesters of a Nordic language.
2. Familiarize the students with three Nordic languages (Danish, Norwegian, and Swedish) to complement their knowledge of their chosen language via the 6th semester Scandinavian Language class (401).
3. Demonstrate understanding in a global context in a field of study covering literature, history, area studies, folklore, or philology classes.
4. Select and utilize the most appropriate methods of study and inquiry within the content of the classes taken.
5. Evaluate and respond to information pertaining to the classes taken, showing clear analytical and critical thinking skills.
6. Communicate clearly in appropriate ways in the classes taken.
7. If possible, benefit from a semester or year's study abroad leading to a consolidation and enhancement of the above mentioned skills.
8. Recognize and apply principles of ethical and professional conduct.

## ADVISING AND CAREERS

For advising and placement in Scandinavian studies contact our undergraduate advisor:

Nete Schmidt, Scandinavian Studies Undergraduate Advisor  
 aschmidt2@wisc.edu  
 1368 Van Hise

For other undergraduate concerns, please contact our undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For additional career advising please contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu  
<http://languages.wisc.edu/languageadvising>

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

Professors Susan Brantly, Thomas DuBois, Kirsten Wolf

Assistant Professor Dean Krouk

Faculty Associates Scott A. Mellor, Nete Schmidt

Senior Lecturer Peggy Hager

Associate Lecturer Todd Michelson-Ambelang

## SCANDINAVIAN STUDIES, CERTIFICATE

The Scandinavian studies program provides the opportunity to learn a Scandinavian language or Finnish (modern Icelandic only occasionally). The literature, folklore, and culture of the Nordic countries are taught both in the original languages and in English translation. Partly in cooperation with other departments, courses in Scandinavian area studies are offered (history, social institutions, geography, art, archaeology).

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The Scandinavian studies certificate requires 18 credits of SCAND ST, 9 credits must be taken at the 300 level or higher. Select at least one course from each of the following areas:

#### A. LANGUAGES

##### DANISH

Code	Title	Credits
SCAND ST 121	First Semester Danish	4
SCAND ST 122	Second Semester Danish	4
SCAND ST 221	Second Year Danish	4
SCAND ST 222	Second Year Danish	4
SCAND ST 271	Readings in Danish Literature	3-4

##### FINNISH

Code	Title	Credits
SCAND ST 131	First Semester Finnish	4
SCAND ST 132	Second Semester Finnish	4
SCAND ST 301	Intensive Finnish I	7
SCAND ST 302	Intensive Finnish II	7

##### ICELANDIC

Code	Title	Credits
SCAND ST 520	Special Topics (Icelandic)	3

##### NORWEGIAN

Code	Title	Credits
SCAND ST 101	First Semester Norwegian	4
SCAND ST 102	Second Semester Norwegian	4
SCAND ST 201	Second Year Norwegian	4
SCAND ST 202	Second Year Norwegian	4
SCAND ST 251	Readings in Norwegian Literature	3-4

##### SAMI

Code	Title	Credits
SCAND ST 404	Languages of Northern Europe	2-4

##### SWEDISH

Code	Title	Credits
SCAND ST 111	First Semester Swedish	4
SCAND ST 112	Second Semester Swedish	4
SCAND ST 211	Second Year Swedish	4
SCAND ST 212	Second Year Swedish	4
SCAND ST 261	Readings in Swedish Literature	3-4

#### B. LANGUAGE, CULTURE, AND HISTORY COURSES

Code	Title	Credits
SCAND ST 296	The Scandinavian Heritage in America	3
SCAND ST 401	Contemporary Scandinavian Languages	3
SCAND ST 405	Nynorsk sprak og kultur	3

SCAND ST/ MEDIEVAL 407	Old Norse	3
SCAND ST/ MEDIEVAL 408	Old Norse	3
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	3
SCAND ST 410	Introduction to Scandinavian Linguistics	3
SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	3
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	3
SCAND ST 429	Mythology of Scandinavia	4
SCAND ST/ MEDIEVAL 430	The Vikings	4
SCAND ST/ HISTORY 431	History of Scandinavia to 1815	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
SCAND ST 433	The Scandinavian Tale and Ballad	4
SCAND ST 435	The Icelandic Sagas	4
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
SCAND ST 466	Greenland - Past, Present, and Future	3
SCAND ST 476	Scandinavian Life and Civilization II	4
SCAND ST 496	The Scandinavian Heritage in America	3
SCAND ST 510	Topics in Scandinavian Linguistics	3
SCAND ST 511	Paleography and Philology - Old Norse	3
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
SCAND ST 630	Fundamentals of Bibliography and Research	3

#### C. SCANDINAVIAN LITERATURE COURSES

Code	Title	Credits
SCAND ST 284	The "Scandinavian Modern" Phenomenon in Arts and Literature	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
SCAND ST 419	Scandinavian Children's Literature	4
SCAND ST 420	The Woman in Scandinavian Literature	4

SCAND ST 421	Scandinavian Topics in Depth (1 Norwegian-American Folksong)	1-2
SCAND ST 421	Scandinavian Topics in Depth (2 Finnish-American Folksong)	1-2
SCAND ST 421	Scandinavian Topics in Depth (4 Hagiography in the North)	1-2
SCAND ST 422	The Drama of Henrik Ibsen	4
SCAND ST 423	The Drama of August Strindberg	4
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
SCAND ST 426	Kierkegaard and Scandinavian Literature	4
SCAND ST 427	Contemporary Scandinavian Literature	4
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
SCAND ST 436	Topics in Scandinavian Literature	3-4
SCAND ST 437	Modern Scandinavian Drama	4
SCAND ST 450	Scandinavian Decadence in its European Context	3-4
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	4
SCAND ST 501	Tal Och Skrift	2
SCAND ST 520	Special Topics	3
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
SCAND ST 636	Survey of Scandinavian Literature: 1890-1920	3

## RESIDENCE AND QUALITY OF WORK

At least 9 credits must be taken in residence. A UW–Madison-sponsored study abroad program applies as in-residence credit.

A 2.000 cumulative GPA is required in all courses eligible for the certificate.

## ADVISING AND CAREERS

For advising and placement in Scandinavian studies contact our undergraduate advisor:

Nete Schmidt, Scandinavian Studies Undergraduate Advisor  
 aschmidt2@wisc.edu  
 1368 Van Hise

For other undergraduate concerns, please contact our undergraduate coordinator:

Bridget Sutton, Undergraduate Coordinator  
 undergrad@gns.wisc.edu  
 608-262-2090  
 1306 Van Hise

For additional career advising please contact:

Michael Kruse  
 International Directions Advisor  
 Language Institute  
 mkruse@wisc.edu  
<http://languages.wisc.edu/languageadvising>

Letters & Science Career Initiative & Career Services  
 1305 Linden Drive, Suite 205  
 Madison, WI 53706  
 608-262-3921  
 careers@saa.ls.wisc.edu  
<http://careers.ls.wisc.edu/>

## PEOPLE

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## HISTORY

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](http://history.wisc.edu)

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

## DEGREES/MAJORS/CERTIFICATES

- Celtic Studies, Certificate (p. 709)
- History and History of Science, Medicine, and Technology, B.A. (p. 710)
- History and History of Science, Medicine, and Technology, B.S. (p. 713)
- History of Science, Medicine, and Technology, B.A. (p. 716)
- History of Science, Medicine, and Technology, B.S. (p. 719)
- History, B.A. (p. 722)
- History, B.S. (p. 730)
- Medieval Studies, Certificate (p. 738)

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([http://history.wisc.edu/faculty\\_mlr.htm](http://history.wisc.edu/faculty_mlr.htm)), Schatzberg (<http://go.wisc.edu/schatzberg>), Sharpless ([http://history.wisc.edu/faculty\\_js.htm](http://history.wisc.edu/faculty_js.htm)), Sommerville ([http://history.wisc.edu/faculty\\_jso.htm](http://history.wisc.edu/faculty_jso.htm)), Stern ([http://history.wisc.edu/emeriti\\_ss.htm](http://history.wisc.edu/emeriti_ss.htm)), Sweet ([http://history.wisc.edu/faculty\\_jsw.htm](http://history.wisc.edu/faculty_jsw.htm)), Wandel ([http://history.wisc.edu/faculty\\_lw.htm](http://history.wisc.edu/faculty_lw.htm)), Wink ([http://history.wisc.edu/faculty\\_aw.htm](http://history.wisc.edu/faculty_aw.htm)), Young ([http://history.wisc.edu/faculty\\_ly.htm](http://history.wisc.edu/faculty_ly.htm))

Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina ([http://history.wisc.edu/faculty\\_el.htm](http://history.wisc.edu/faculty_el.htm)), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane ([http://history.wisc.edu/teachingassociate\\_mc.htm](http://history.wisc.edu/teachingassociate_mc.htm)), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## CELTIC STUDIES, CERTIFICATE

The requirements for the undergraduate certificate in Celtic studies are being reorganized. Admission to the program has been suspended,

effective fall 2015. The information that appears in this entry is provided for the benefit of students currently admitted to the program.

Celtic studies is a multidisciplinary field encompassing the history and culture of those peoples who presently inhabit the northwestern perimeter of Europe, including Ireland (both north and south), Scotland, Wales, Brittany, and the Isle of Man, as well as their diaspora communities. Since peoples speaking Celtic languages once occupied a much larger geographical area than this, Celtic studies also addresses the prehistory and early history of continental Europe.

The chief Celtic languages spoken today are Irish, Scots Gaelic, and Welsh. Each of these languages boasts a major literary tradition dating back to the Middle Ages. Along with studying old and new literature in these languages and in translation, Celtic studies also addresses the political and cultural history and legacy of emigration from Ireland and other traditionally Celtic regions to North America, Australia, and other parts of the world.

## HOW TO GET IN

The requirements for the undergraduate certificate in Celtic studies are being reorganized. Admission to the program has been suspended, effective fall 2015. The information that appears in this entry is provided for the benefit of students currently admitted to the program.

## REQUIREMENTS

The requirements for the undergraduate certificate in Celtic studies are being reorganized. Admission to the program has been suspended, effective fall 2015. The information that appears in this entry is provided for the benefit of students currently admitted to the program.

The certificate is available to students working for a baccalaureate degree in any UW–Madison school or college, as well as to Special students. The certificate requires at least 18 credits with a grade point average of at least 2.0. With permission of the Celtic studies advisor, up to 12 of those credits may be earned in the UW–Madison study-abroad programs at Trinity College Dublin and at the National University of Ireland–Galway, or through other approved study abroad programs.

Courses that contribute to the Celtic studies certificate are offered in a range of university departments and programs, including anthropology, classics, English, folklore, French and Italian, history, music, Scandinavian studies, sociology, theatre and drama, and gender and women's studies.

The Celtic studies website lists courses eligible for Celtic studies credit every semester. See courses (<http://celticstudies.wisc.edu/academics/courses>) for more information for courses that will apply to the certificate in Celtic studies.

## ADVISING AND CAREERS

**Professor Chelcy Bowles, Advisor**

[cbowles@dcs.wisc.edu](mailto:cbowles@dcs.wisc.edu)  
608-265-5629

## HISTORY AND HISTORY OF SCIENCE, MEDICINE, AND TECHNOLOGY, B.A.

Admissions to the undergraduate major in history of science, medicine, and technology and the combined major history and history of science, medicine, and technology will be suspended effective fall 2017. Summer 2017 will be the last term students may declare the majors. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

### HOW TO GET IN

Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

Students interested in declaring a joint major in history and history of science, medicine, and technology should meet with an advisor in the history department. Information about advising and declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program>) of the department website.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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	30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

A minimum of 30 credits in **history** and in **history of science, medicine, and technology** distributed as follows:

- At least four courses in **history**. Students are urged to take HISTORY 201 The Historian's Craft as one of these courses.
  - At least one of these courses must be in U.S. history.
  - At least one must be in European history.
  - At least one must be from one of the following Breadth categories: Africa, Central or East Asia, South or Southeast Asia, Latin America, Middle East, Transnational.
  - Though some courses may qualify in more than one Geographic Breadth area, a course may satisfy only one category for purposes of meeting the breadth requirement. Some topics courses in history may qualify for Geographic Breadth.
- At least four courses in **history of science, medicine, and technology**. Students are urged to take one or more of these from the 300–599 series.
- At least 15 credits of upper-level coursework (as defined by each department) of which at least 6 credits must be in history and at least 6 credits must be in history of science, medicine, and technology.
- At least one seminar course chosen from HISTORY 600 Advanced Seminar in History or HIST SCI 555 Undergraduate Seminar in History of Science.
- Knowledge of a science is recommended but not required for the joint major.

**All students must fulfill the L&S requirements for Quality and Residence in the major.**

- 2.000 GPA in major and required courses in the major
- 2.000 GPA on **15 upper-level major credits in residence** (I/A level). Students may fulfill this requirement with any of the major courses designated as intermediate or advanced.
- 15 credits in the major taken **on campus**

## HONORS IN THE MAJOR

Students may declare Honors in the History and History of Science, Medicine and Technology Major in consultation with the History undergraduate advisor.

## HONORS IN THE HISTORY AND HISTORY OF SCIENCE, MEDICINE AND TECHNOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in History and History of Science, Medicine and Technology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA

- Earn a 3.500 GPA for all HISTORY and HIST SCI courses
- Complete a minimum of 36 credits, to include five courses in HISTORY (with the same breadth requirements and recommendation for HISTORY 201 The Historian's Craft as the standard joint major above) and five courses in HIST SCI, of which three must be from the 300–599 series.
- Complete at least 21 credits of upper-level work<sup>1</sup> in the major while in residence<sup>2</sup>
- Complete HISTORY 600 Advanced Seminar in History and HIST SCI/MED HIST 284 Physician in History (Honors) (in conjunction with HIST SCI/MED HIST 212 Bodies, Diseases, and Healers: An Introduction to the History of Medicine).
- Complete a two-semester Senior Honors Thesis in HISTORY 681 Senior Honors Thesis and HISTORY 682 Senior Honors Thesis, for a total of 6 or more credits or History of Science Senior Honors Thesis HIST SCI 681 Senior Honors Thesis and HIST SCI 682 Senior Honors Thesis, for a total of 6 or more credits. Students choosing HISTORY 681–HISTORY 682 must take HISTORY 680 Honors Thesis Colloquium both semesters in conjunction with the thesis. Students choosing HIST SCI 681–HIST SCI 682 must take HIST SCI 555 Undergraduate Seminar in History of Science before embarking on the thesis; in exceptional cases, it may be taken in conjunction with HIST SCI 681.

<sup>1</sup> *Upper level* is defined as as courses numbered 300–699.

<sup>2</sup> *In residence* does include affiliated University of Wisconsin–Madison study abroad programs.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public

discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

## SKILLS DEVELOPED IN THE MAJOR

### *Define Important Historical Questions*

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

### *Collect and Analyze Evidence*

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.

### *Present Original Conclusions*

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

### *Contribute to Ongoing Discussions*

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([http://history.wisc.edu/faculty\\_mlr.htm](http://history.wisc.edu/faculty_mlr.htm)), Schatzberg (<http://go.wisc.edu/schatzberg>), Sharpless ([http://history.wisc.edu/faculty\\_js.htm](http://history.wisc.edu/faculty_js.htm)), Sommerville ([http://history.wisc.edu/faculty\\_jso.htm](http://history.wisc.edu/faculty_jso.htm)), Stern ([http://history.wisc.edu/emeriti\\_ss.htm](http://history.wisc.edu/emeriti_ss.htm)), Sweet ([http://history.wisc.edu/faculty\\_jsw.htm](http://history.wisc.edu/faculty_jsw.htm)), Wandel ([http://history.wisc.edu/faculty\\_lw.htm](http://history.wisc.edu/faculty_lw.htm)), Wink ([http://history.wisc.edu/faculty\\_aw.htm](http://history.wisc.edu/faculty_aw.htm)), Young ([http://history.wisc.edu/faculty\\_ly.htm](http://history.wisc.edu/faculty_ly.htm))

Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors: Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina ([http://history.wisc.edu/faculty\\_el.htm](http://history.wisc.edu/faculty_el.htm)), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane (<http://history.wisc.edu/>)



teachingassociate\_mc.htm), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## HISTORY AND HISTORY OF SCIENCE, MEDICINE, AND TECHNOLOGY, B.S.

**Admissions to the undergraduate major in history of science, medicine, and technology and the combined major history and history of science, medicine, and technology will be suspended effective fall 2017. Summer 2017 will be the last term students may declare the majors. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.**

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

### HOW TO GET IN

**Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.**

Students interested in declaring a joint major in history and history of science, medicine, and technology should meet with an advisor in the history department. Information about advising and declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program>) of the department website.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
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Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

A minimum of 30 credits in **history** and in **history of science, medicine, and technology** distributed as follows:

- At least four courses in **history**. Students are urged to take HISTORY 201 The Historian's Craft as one of these courses.
  - At least one of these courses must be in U.S. history.
  - At least one must be in European history.
  - At least one must be from one of the following Breadth categories: Africa, Central or East Asia, South or Southeast Asia, Latin America, Middle East, Transnational.
  - Though some courses may qualify in more than one Geographic Breadth area, a course may satisfy only one category for purposes of meeting the breadth requirement. Some topics courses in history may qualify for Geographic Breadth.
- At least four courses in **history of science, medicine, and technology**. Students are urged to take one or more of these from the 300–599 series.
- At least 15 credits of upper-level coursework (as defined by each department) of which at least 6 credits must be in history and at least 6 credits must be in history of science, medicine, and technology.
- At least one seminar course chosen from HISTORY 600 Advanced Seminar in History or HIST SCI 555 Undergraduate Seminar in History of Science.
- Knowledge of a science is recommended but not required for the joint major.

### All students must fulfill the L&S requirements for Quality and Residence in the major:

- 2.000 GPA in major and required courses in the major
- 2.000 GPA on **15 upper-level major credits in residence** (I/A level). Students may fulfill this requirement with any of the major courses designated as intermediate or advanced.
- 15 credits in the major taken **on campus**

## HONORS IN THE MAJOR

Students may declare Honors in the History and History of Science, Medicine and Technology Major in consultation with the History undergraduate advisor.

### HONORS IN THE HISTORY AND HISTORY OF SCIENCE, MEDICINE AND TECHNOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in History and History of Science, Medicine and Technology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all HISTORY and HIST SCI courses
- Complete a minimum of 36 credits, to include five courses in HISTORY (with the same breadth requirements and recommendation for HISTORY 201 The Historian's Craft as the standard joint major

above) and five courses in HIST SCI, of which three must be from the 300–599 series.

- Complete at least 21 credits of upper-level work<sup>1</sup> in the major while in residence<sup>2</sup>
- Complete HISTORY 600 Advanced Seminar in History and HIST SCI/MED HIST 284 Physician in History (Honors) (in conjunction with HIST SCI/MED HIST 212 Bodies, Diseases, and Healers: An Introduction to the History of Medicine).
- Complete a two-semester Senior Honors Thesis in HISTORY 681 Senior Honors Thesis and HISTORY 682 Senior Honors Thesis, for a total of 6 or more credits or History of Science Senior Honors Thesis HIST SCI 681 Senior Honors Thesis and HIST SCI 682 Senior Honors Thesis, for a total of 6 or more credits. Students choosing HISTORY 681–HISTORY 682 must take HISTORY 680 Honors Thesis Colloquium both semesters in conjunction with the thesis. Students choosing HIST SCI 681–HIST SCI 682 must take HIST SCI 555 Undergraduate Seminar in History of Science before embarking on the thesis; in exceptional cases, it may be taken in conjunction with HIST SCI 681.

<sup>1</sup> *Upper level* is defined as as courses numbered 300–699.

<sup>2</sup> *In residence* does include affiliated University of Wisconsin–Madison study abroad programs.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their

writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

## SKILLS DEVELOPED IN THE MAJOR

### *Define Important Historical Questions*

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

### *Collect and Analyze Evidence*

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.

### *Present Original Conclusions*

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

### *Contribute to Ongoing Discussions*

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([http://history.wisc.edu/faculty\\_ml.htm](http://history.wisc.edu/faculty_ml.htm)), Schatzberg (<http://go.wisc.edu/schatzberg>), Sharpless ([http://history.wisc.edu/faculty\\_js.htm](http://history.wisc.edu/faculty_js.htm)), Sommerville ([http://history.wisc.edu/faculty\\_jso.htm](http://history.wisc.edu/faculty_jso.htm)), Stern ([http://history.wisc.edu/emeriti\\_ss.htm](http://history.wisc.edu/emeriti_ss.htm)), Sweet ([http://history.wisc.edu/faculty\\_jsw.htm](http://history.wisc.edu/faculty_jsw.htm)), Wandel ([http://history.wisc.edu/faculty\\_lw.htm](http://history.wisc.edu/faculty_lw.htm)), Wink ([http://history.wisc.edu/faculty\\_aw.htm](http://history.wisc.edu/faculty_aw.htm)), Young ([http://history.wisc.edu/faculty\\_ly.htm](http://history.wisc.edu/faculty_ly.htm))

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## HISTORY OF SCIENCE, MEDICINE, AND TECHNOLOGY, B.A.

Admissions to the undergraduate major in history of science, medicine, and technology and the combined major history and history of science, medicine, and technology will be suspended effective fall 2017. Summer 2017 will be the last term students may declare the majors. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

### HOW TO GET IN

Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

To be accepted as a major in history of science, medicine, and technology, the student must declare with the history undergraduate advisor (<https://history.wisc.edu/undergraduate-program/undergraduate-advicing>).

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

#### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

The major requires a minimum of 30 credits.

Code	Title	Credits
Select at least 24 credits in history of science <sup>1</sup>		24
Select 6 credits in science or mathematics above the elementary level (not to include mathematics courses numbered 223 and below)		6
Total Credits		30

<sup>1</sup> All majors are required to take HIST SCI 555, the department's capstone seminar, in the junior or senior year.

One 3-credit course toward the 24-credit minimum may be chosen from approved courses in related disciplines. These courses include:

Code	Title	Credits
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 521	Philosophy of the Social Sciences	3
PHILOS/ ENVIR ST 523	Philosophical Problems of the Biological Sciences	3
PHILOS/ MED HIST 558	Ethical Issues in Health Care	3
MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology	3-4
SOC 531	Sociology of Medicine	3

Other substitutions may be allowed at the discretion of the undergraduate advisor. ILS 201 Western Culture: Science, Technology, Philosophy I or ILS 202 Western Culture: Science, Technology, Philosophy II may be used in place of HIST SCI 201 The Origins of Scientific Thought or HIST SCI 202 The Making of Modern Science to count toward the major requirements; ILS 271 Pre-Copernican Astronomy and Cosmology in Crosscultural Perspective may be used as a regular course in the major.

All students must fulfill the L&S requirement of at least **15 credits of upper-level work in the major** completed in residence. Departmental courses above the elementary level count toward this requirement.

## HONORS IN THE MAJOR

Students may declare Honors in the History of Science, Medicine and Technology Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE HISTORY OF SCIENCE, MEDICINE AND TECHNOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in History of Science, Medicine and Technology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all upper-level<sup>1</sup> HIST SCI courses
- Of the 24 departmental credits required, at least 15 must come from courses numbers 300–599 or HIST SCI 615 The History of Evolutionary Thought
- Complete one of the following: HIST SCI 180 Freshman Honors Seminar: History of Science, Technology and Medicine, HIST SCI 280 Honors Seminar: Studies in Science, Technology, Medicine, HIST SCI/MED HIST 284 Physician in History (Honors) (in conjunction with HIST SCI/MED HIST 212 Bodies, Diseases, and Healers: An Introduction to the History of Medicine), or one seminar (minimum of 3 credits) offered by the department at the upper-division level.
- HIST SCI 555 Undergraduate Seminar in History of Science should be taken before embarking on the Senior Honors Thesis; in exceptional cases, HIST SCI 555 Undergraduate Seminar in History of Science may be taken concurrently with HIST SCI 681 Senior Honors Thesis.
- Complete a two-semester Senior Honors Thesis in HIST SCI 681 Senior Honors Thesis and HIST SCI 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Upper level includes all intermediate- and advanced-level courses

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

### SKILLS DEVELOPED IN THE MAJOR

#### *Define Important Historical Questions*

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

#### *Collect and Analyze Evidence*

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.

#### *Present Original Conclusions*

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

#### *Contribute to Ongoing Discussions*

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([http://history.wisc.edu/faculty\\_mlr.htm](http://history.wisc.edu/faculty_mlr.htm)), Schatzberg (<http://go.wisc.edu/schatzberg>), Sharpless ([http://history.wisc.edu/faculty\\_js.htm](http://history.wisc.edu/faculty_js.htm)), Sommerville ([http://history.wisc.edu/faculty\\_jso.htm](http://history.wisc.edu/faculty_jso.htm)), Stern ([http://history.wisc.edu/emeriti\\_ss.htm](http://history.wisc.edu/emeriti_ss.htm)), Sweet ([http://history.wisc.edu/faculty\\_jsw.htm](http://history.wisc.edu/faculty_jsw.htm)), Wandel ([http://history.wisc.edu/faculty\\_lw.htm](http://history.wisc.edu/faculty_lw.htm)), Wink ([http://history.wisc.edu/faculty\\_aw.htm](http://history.wisc.edu/faculty_aw.htm)), Young ([http://history.wisc.edu/faculty\\_ly.htm](http://history.wisc.edu/faculty_ly.htm))

Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina (

history.wisc.edu/faculty\_el.htm), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane ([http://history.wisc.edu/teachingassociate\\_mc.htm](http://history.wisc.edu/teachingassociate_mc.htm)), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## HISTORY OF SCIENCE, MEDICINE, AND TECHNOLOGY, B.S.

**Admissions to the undergraduate major in history of science, medicine, and technology and the combined major history and history of science, medicine, and technology will be suspended effective fall 2017. Summer 2017 will be the last term students may declare the majors. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.**

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

### HOW TO GET IN

**Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.**

To be accepted as a major in history of science, medicine, and technology, the student must declare with the history undergraduate advisor (<https://history.wisc.edu/undergraduate-program/undergraduate-advising>).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Pending final approval by the University Academic Planning Committee, admission to this major will be suspended. Please consult with the history advisor about ways in which the history major can be completed with coursework in history of science and medical history.

The major requires a minimum of 30 credits.

Code	Title	Credits
Select at least 24 credits in history of science <sup>1</sup>		24
Select 6 credits in science or mathematics above the elementary level (not to include mathematics courses numbered 223 and below)		6
Total Credits		30

<sup>1</sup> All majors are required to take HIST SCI 555, the department's capstone seminar, in the junior or senior year.

One 3-credit course toward the 24-credit minimum may be chosen from approved courses in related disciplines. These courses include:

Code	Title	Credits
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 521	Philosophy of the Social Sciences	3
PHILOS/ ENVIR ST 523	Philosophical Problems of the Biological Sciences	3
PHILOS/ MED HIST 558	Ethical Issues in Health Care	3
MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology	3-4
SOC 531	Sociology of Medicine	3

Other substitutions may be allowed at the discretion of the undergraduate advisor. ILS 201 Western Culture: Science, Technology, Philosophy I or ILS 202 Western Culture: Science, Technology, Philosophy II may be used in place of HIST SCI 201 The Origins of Scientific Thought or HIST SCI 202 The Making of Modern Science to count toward the major requirements; ILS 271 Pre-Copernican Astronomy and Cosmology in Crosscultural Perspective may be used as a regular course in the major.

All students must fulfill the L&S requirement of at least **15 credits of upper-level work in the major** completed in residence. Departmental courses above the elementary level count toward this requirement.

## HONORS IN THE MAJOR

Students may declare Honors in the History of Science, Medicine and Technology Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE HISTORY OF SCIENCE, MEDICINE AND TECHNOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in History of Science, Medicine and Technology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all upper-level<sup>1</sup> HIST SCI courses
- Of the 24 departmental credits required, at least 15 must come from courses numbers 300–599 or HIST SCI 615 The History of Evolutionary Thought
- Complete one of the following: HIST SCI 180 Freshman Honors Seminar: History of Science, Technology and Medicine, HIST SCI 280 Honors Seminar: Studies in Science, Technology, Medicine, HIST SCI/MED HIST 284 Physician in History (Honors) (in conjunction with HIST SCI/MED HIST 212 Bodies, Diseases, and Healers: An Introduction to the History of Medicine), or one seminar (minimum of 3 credits) offered by the department at the upper-division level.
- HIST SCI 555 Undergraduate Seminar in History of Science should be taken before embarking on the Senior Honors Thesis; in exceptional cases, HIST SCI 555 Undergraduate Seminar in History of Science may be taken concurrently with HIST SCI 681 Senior Honors Thesis.
- Complete a two-semester Senior Honors Thesis in HIST SCI 681 Senior Honors Thesis and HIST SCI 682 Senior Honors Thesis, for a total of 6 credits.

<sup>1</sup> Upper level includes all intermediate- and advanced-level courses

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.



## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

### SKILLS DEVELOPED IN THE MAJOR

#### *Define Important Historical Questions*

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

#### *Collect and Analyze Evidence*

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.

#### *Present Original Conclusions*

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

#### *Contribute to Ongoing Discussions*

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([http://history.wisc.edu/faculty\\_mlr.htm](http://history.wisc.edu/faculty_mlr.htm)), Schatzberg (<http://go.wisc.edu/schatzberg>), Sharpless ([http://history.wisc.edu/faculty\\_js.htm](http://history.wisc.edu/faculty_js.htm)), Sommerville ([http://history.wisc.edu/faculty\\_jso.htm](http://history.wisc.edu/faculty_jso.htm)), Stern ([http://history.wisc.edu/emeriti\\_ss.htm](http://history.wisc.edu/emeriti_ss.htm)), Sweet ([http://history.wisc.edu/faculty\\_jsw.htm](http://history.wisc.edu/faculty_jsw.htm)), Wandel ([http://history.wisc.edu/faculty\\_lw.htm](http://history.wisc.edu/faculty_lw.htm)), Wink ([http://history.wisc.edu/faculty\\_aw.htm](http://history.wisc.edu/faculty_aw.htm)), Young ([http://history.wisc.edu/faculty\\_ly.htm](http://history.wisc.edu/faculty_ly.htm))

Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina (

history.wisc.edu/faculty\_el.htm), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane ([http://history.wisc.edu/teachingassociate\\_mc.htm](http://history.wisc.edu/teachingassociate_mc.htm)), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## HISTORY, B.A.

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](http://history.wisc.edu)

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

## HOW TO GET IN

Students interested in declaring a history major should meet with an advisor in the history department. Information about advising and declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program>) of the department website. There are no prerequisites for declaring the history major, and students are encouraged to declare as soon as they feel comfortable doing so.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison 30 credits in residence, overall

Experience 30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPAs	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS OF THE MAJOR

A minimum of 30 credits in HISTORY is required to complete the major, including:

### CHRONOLOGICAL BREADTH:

History majors must complete at least one course that deals with the history of Europe and/or the Mediterranean before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence.

### CHRONOLOGICAL BREADTH COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY 333	The Renaissance	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3

HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY/HIST SCI/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3

### GEOGRAPHIC BREADTH:

At minimum, history majors must complete one course from four of the eight geographic breadth categories.

### GEOGRAPHIC BREADTH: EUROPEAN HISTORY COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	The Making of Modern Europe 1500-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 124	British History: 1688 to the Present	4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 223	Explorations in European History (H)	3-4

HISTORY 224	Explorations in European History (S)	3	HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY/ GEN&WS 392	Women in History	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY 417	History of Russia	3-4
HISTORY 271	History Study Abroad: European History	1-4	HISTORY 418	History of Russia	3-4
HISTORY 303	A History of Greek Civilization	3-4	HISTORY 419	History of Soviet Russia	3-4
HISTORY 307	A History of Rome	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY 467	Economic and Social History of Europe 1500-1750	3-4
HISTORY/ HIST SCI 324	Science in the Enlightenment	3	HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY 474	European Social History, 1830-1914	3-4
HISTORY 333	The Renaissance	3-4	HISTORY 475	European Social History, 1914- Present	3-4
HISTORY/ RELIG ST 334	The Reformation	3-4	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/ LEGAL ST 502	Law and Colonialism	3
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY 351	Seventeenth-Century Europe	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY 352	Eighteenth Century Europe	3-4	HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3
HISTORY 357	The Second World War	3-4	HISTORY 514	European Cultural History Since 1870	3-4
HISTORY 358	French Revolution and Napoleon	3-4	HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY 359	History of Europe Since 1945	3-4	HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 367	Society and Ideas in Shakespeare's England	3-4	HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3	HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4			

HISTORY/CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4

### GEOGRAPHIC BREADTH: AFRICAN HISTORY COURSES

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 377	History of Africa, 1500 to 1870	3-4
HISTORY 378	History of Africa Since 1870	3-4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4

### GEOGRAPHIC BREADTH: CENTRAL OR EAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
HISTORY 108	Introduction to East Asian History - Korea	3-4
HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY 335	Korean History, 1945 to present	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY/ E A STDS 363	China and World War II in Asia	3-4

HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

### GEOGRAPHIC BREADTH: SOUTH OR SOUTHEAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
HISTORY/E ASIAN/ LCA/RELIG ST 308	Introduction to Buddhism	3-4
HISTORY 319	The Vietnam Wars	3-4
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/LCA 450	Making of Modern South Asia	3-4
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HISTORY 463	Topics in South Asian History	3
HISTORY/LCA/ RELIG ST 547	Religion, Colonialism & Modernity in Southeast Asia	3

### GEOGRAPHIC BREADTH: LATIN AMERICAN HISTORY COURSES

Code	Title	Credits
HISTORY 240	Colonial Latin America from Conquest to Insurgency	4
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY 242	Modern Latin America, 1898 to the Present	4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4

HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY 555	History of Brazil	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

### GEOGRAPHIC BREADTH: MIDDLE EASTERN HISTORY COURSES

Code	Title	Credits
HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/GEN&WS/ LCA 472	Women in Turkish Society	3
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4

### GEOGRAPHIC BREADTH: TRANSNATIONAL HISTORY COURSES

Code	Title	Credits
HISTORY 130	An Introduction to World History	3-4
HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
HISTORY 135	Colloquium in Comparative World History	4
HISTORY/LCA 144	Traveling the World: South Asians in Diaspora	4
HISTORY 228	Explorations in Transnational/Comparative History (Social Science)	3
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY 274	History Study Abroad: Transnational/Global History	1-4
HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
HISTORY 319	The Vietnam Wars	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY 357	The Second World War	3-4

HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/ENVIR ST/ F&W ECOL 452	World Forest History	3
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ LEGAL ST 502	Law and Colonialism	3
HISTORY 503	Irish and Scottish Migrations	3
HISTORY 525	The World and the West from 1492	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3

### GEOGRAPHIC BREADTH: U.S. HISTORY COURSES

Code	Title	Credits
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 102	American History, Civil War Era to the Present	4
HISTORY 109	Introduction to U.S. History	3-4
HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4
HISTORY 221	Explorations in American History (H)	3-4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3
HISTORY 272	History Study Abroad: United States History	1-4
HISTORY 302	History of American Thought, 1859 to the Present	3-4
HISTORY 304	United States, 1877-1914	3-4
HISTORY 305	United States 1914-1945	3-4
HISTORY 306	The United States Since 1945	3-4
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4
HISTORY 329	History of American Capitalism	4
HISTORY 343	Colonial British North America	3-4

HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
HISTORY 391	The Age of Jefferson and Jackson, 1789-1848	3-4
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY 408	American Labor History: 1900-Present	3-4
HISTORY/ ED POL 412	History of American Education	3
HISTORY/ JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY 427	The American Military Experience to 1902	3-4
HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4
HISTORY/ECON 466	The American Economy Since 1865	3-4
HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY/ AMER IND 490	American Indian History	3-4
HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3
HISTORY/ JOURN 560	History of Mass Communication	4
HISTORY/L I S 569	History of American Librarianship	3
HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3

## NOTES ON HISTORY BREADTH REQUIREMENTS

- Breadth courses may be taken in any order.

- Chronological Breadth courses may also count toward a Geographic Breadth category.
- Some courses qualify for more than one Geographic Breadth area, but a course may only count for one Geographic Breadth category for the purposes of meeting the requirement.
- Topics courses in history (HISTORY 200, HISTORY 201, HISTORY 221, HISTORY 223, HISTORY 225, HISTORY 227, HISTORY 229, HISTORY 271, HISTORY 272, HISTORY 273, HISTORY 274, HISTORY 275, HISTORY 283, & HISTORY 500) may count for Geographic and/or Chronological Breadth. For topics courses, see the course notes for current breadth information.
- The following courses **may not be used** for breadth in the major: HISTORY 199, HISTORY 600, HISTORY 680, HISTORY 681, HISTORY 682, HISTORY 690, HISTORY 691, HISTORY 692, HISTORY 698, & HISTORY 699.

## HISTORY WRITING AND RESEARCH SEQUENCE:

History majors must complete both of the following:

- HISTORY 201 The Historian's Craft. Students are encouraged to complete History 201 as early as possible.
- HISTORY 600 Advanced Seminar in History, to be taken after satisfactory completion of History 201. Enrolling in a History 600 seminar requires instructor consent. Available seminars can be found on the history department website (<https://history.wisc.edu/history600-seminars>).

## L&S REQUIREMENTS FOR QUALITY AND RESIDENCE IN THE MAJOR:

- 2.000 GPA in HISTORY and required courses in the major
- 2.000 GPA on **15 upper-level major credits in residence**. HISTORY courses designated as intermediate or advanced are upper level in the major.
- 15 credits **HISTORY** taken on **campus**

## GLOBAL HISTORY TRACK

Any undergraduate history major may choose to pursue the Global Track by completing all requirements for the history major above, and these additional requirements:

- Geographic Breadth:** one additional course, in a fifth breadth area; at least one of the five breadth courses must be from the Transnational category
- Foreign Language or Experience Requirement:** one of the following options:
  - Completion of the 5th unit of a single foreign language, defined as the 5th semester of college instruction or the 5th year of high school instruction
  - ESL 118 Academic Writing II
  - 3 credits of coursework from a UW–Madison Study Abroad Program

*Note:* The Global History Track is unofficial and will not be recorded on a student's final transcript. For purposes of graduation auditing, DARS will display the track as an informational section only.

## DISTINCTION IN THE MAJOR

To be awarded Distinction in the Major, students must:

- Achieve a GPA of at least 3.700 out of 4.000 in HISTORY courses

- Complete a minimum of 21 upper-level credits in major coursework. HISTORY courses designated as intermediate or advanced are upper level in the major.
- Complete all requirements of the major

Students should consult the undergraduate advisor in history regarding current requirements for the major.

## HONORS IN THE MAJOR

Students may declare Honors in the History Major in consultation with the History undergraduate advisor.

### HONORS IN HISTORY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in History students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all HISTORY courses
- Complete at least 36 credits in HISTORY coursework, 21 of which must be upper-level<sup>1</sup> credits in residence
- Complete at least 15 Honors credits in HISTORY coursework
- Complete a two-semester Senior Honors Thesis, a piece of original work of approximately forty pages, in HISTORY 681 Senior Honors Thesis–HISTORY 682 Senior Honors Thesis, taken in conjunction with the HISTORY 680 Honors Thesis Colloquium both semesters. The thesis must be approved by instructors in both the thesis and colloquium courses.

<sup>1</sup> Courses with intermediate or advanced level are upper level in the history major

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

### SKILLS DEVELOPED IN THE MAJOR

#### Define Important Historical Questions

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

#### Collect and Analyze Evidence

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.



### Present Original Conclusions

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

### Contribute to Ongoing Discussions

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## ADVISING AND CAREERS

Students declared in, or interested in, the history major have numerous advising resources available to them. The advising team is comprised of professional and peer advisors who are excited to talk with students about everything from academic planning to professional development for future careers. Information on the History advising team, how to contact an advisor, how to schedule an appointment, and drop-in advising hours can be found on our website (<https://history.wisc.edu/undergraduate-program/undergraduate-advising>).

The Honors in the Major track in history is intended for students who are eager to experience the excitement of original historical research and who wish to graduate with the best possible undergraduate training in this discipline. Honors in the Major is especially appropriate for students who are considering graduate work in history or who want an especially rigorous training in research, reasoning, and writing skills useful to a wide range of career choices.

Upcoming career events and internship opportunities are also available on the History Advising Blog (<http://uwhistoryadvising.blogspot.com>).

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([\[history.wisc.edu/faculty\\\_mlr.htm\]\(http://history.wisc.edu/faculty\_mlr.htm\)\), Schatzberg \(<http://go.wisc.edu/schatzberg>\), Sharpless \(\[http://history.wisc.edu/faculty\\\_js.htm\]\(http://history.wisc.edu/faculty\_js.htm\)\), Sommerville \(\[http://history.wisc.edu/faculty\\\_jso.htm\]\(http://history.wisc.edu/faculty\_jso.htm\)\), Stern \(\[http://history.wisc.edu/emeriti\\\_ss.htm\]\(http://history.wisc.edu/emeriti\_ss.htm\)\), Sweet \(\[http://history.wisc.edu/faculty\\\_jsw.htm\]\(http://history.wisc.edu/faculty\_jsw.htm\)\), Wandel \(\[http://history.wisc.edu/faculty\\\_lw.htm\]\(http://history.wisc.edu/faculty\_lw.htm\)\), Wink \(\[http://history.wisc.edu/faculty\\\_aw.htm\]\(http://history.wisc.edu/faculty\_aw.htm\)\), Young \(\[http://history.wisc.edu/faculty\\\_ly.htm\]\(http://history.wisc.edu/faculty\_ly.htm\)\)](http://</a></p>
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Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina ([http://history.wisc.edu/faculty\\_el.htm](http://history.wisc.edu/faculty_el.htm)), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane ([http://history.wisc.edu/teachingassociate\\_mc.htm](http://history.wisc.edu/teachingassociate_mc.htm)), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## RESOURCES AND SCHOLARSHIPS

### THE HISTORY LAB

The History Lab is a resource center for undergraduate students studying, researching, and writing about the past. It is staffed by talented and experienced graduate students from the Department of History.

Through individual and group tutoring, the Lab focuses on honing students' abilities to form suitable topics, conduct research, develop arguments and thesis statements, cite evidence properly, and write using an effective process. The lab is equipped also to support challenges faced by English-language learners.

For more information or to make an appointment, see the History Lab website. (<https://history.wisc.edu/undergraduate-program/the-history-lab>)

### RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

The Department of History is committed to supporting undergraduate achievement and encourages applications for the various scholarships and research fellowships made possible by the generosity of its donors. Scholarships are designed to reward outstanding History majors and are awarded annually. Research fellowships allow undergraduates to pursue in-depth historical research under the guidance of Department of History faculty. These awards help defray research costs such as supplies and

travel expenses or pay for living expenses to allow students time to craft their papers and conduct research in UW Libraries.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/history-the-wisconsin-experience/undergraduate-scholarships>). Applications need to be submitted online, via Scholarships@UW-Madison (<http://scholarships.wisc.edu/Scholarships>).

## UNDERGRADUATE WRITING PRIZES

The history department offers an assortment of essay prizes designed to reward a broad range of undergraduate writing—from Senior Theses to term papers to specialized essays in German-Jewish history. The prizes are made possible thanks to the tremendous generosity of our alumni and former members of our faculty. The history department expresses its gratitude for their support in recognizing the achievements of our undergraduates.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/history-the-wisconsin-experience/undergraduate-scholarships>). Applications need to be submitted online, via Scholarships@UW-Madison (<http://scholarships.wisc.edu/Scholarships>).

## HISTORY, B.S.

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](http://history.wisc.edu)

To study history is to study change: historians are experts in examining and interpreting human identities and transformations of societies and civilizations over time. They use a range of methods and analytical tools to answer questions about the past and to reconstruct the diversity of human experience: how profoundly people have differed in their ideas, institutions, and cultural practices; how widely their experiences have varied by time and place, and the ways they have struggled while inhabiting a shared world. Historians use a wide range of sources to weave individual lives and collective actions into narratives that bring critical perspectives on both our past and our present. Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped (and continues to shape) global, national, and local relationships between societies and people.

## HOW TO GET IN

Students interested in declaring a history major should meet with an advisor in the history department. Information about advising and declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program>) of the department website. There are no prerequisites for declaring the history major, and students are encouraged to declare as soon as they feel comfortable doing so.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

## REQUIREMENTS OF THE MAJOR

A minimum of 30 credits in HISTORY is required to complete the major, including:

### CHRONOLOGICAL BREADTH:

History majors must complete at least one course that deals with the history of Europe and/or the Mediterranean before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence.

### CHRONOLOGICAL BREADTH COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY 333	The Renaissance	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3

HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY/HIST SCI/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3

### GEOGRAPHIC BREADTH:

At minimum, history majors must complete one course from four of the eight geographic breadth categories.

### GEOGRAPHIC BREADTH: EUROPEAN HISTORY COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	The Making of Modern Europe 1500-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 124	British History: 1688 to the Present	4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 223	Explorations in European History (H)	3-4

HISTORY 224	Explorations in European History (S)	3	HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY/ GEN&WS 392	Women in History	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY 417	History of Russia	3-4
HISTORY 271	History Study Abroad: European History	1-4	HISTORY 418	History of Russia	3-4
HISTORY 303	A History of Greek Civilization	3-4	HISTORY 419	History of Soviet Russia	3-4
HISTORY 307	A History of Rome	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY 467	Economic and Social History of Europe 1500-1750	3-4
HISTORY/ HIST SCI 324	Science in the Enlightenment	3	HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY 474	European Social History, 1830-1914	3-4
HISTORY 333	The Renaissance	3-4	HISTORY 475	European Social History, 1914-Present	3-4
HISTORY/ RELIG ST 334	The Reformation	3-4	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/ LEGAL ST 502	Law and Colonialism	3
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY 351	Seventeenth-Century Europe	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY 352	Eighteenth Century Europe	3-4	HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3
HISTORY 357	The Second World War	3-4	HISTORY 514	European Cultural History Since 1870	3-4
HISTORY 358	French Revolution and Napoleon	3-4	HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY 359	History of Europe Since 1945	3-4	HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 367	Society and Ideas in Shakespeare's England	3-4	HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3	HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4			

HISTORY/CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4

### GEOGRAPHIC BREADTH: AFRICAN HISTORY COURSES

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 377	History of Africa, 1500 to 1870	3-4
HISTORY 378	History of Africa Since 1870	3-4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4

### GEOGRAPHIC BREADTH: CENTRAL OR EAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
HISTORY 108	Introduction to East Asian History - Korea	3-4
HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY 335	Korean History, 1945 to present	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY/ E A STDS 363	China and World War II in Asia	3-4

HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

### GEOGRAPHIC BREADTH: SOUTH OR SOUTHEAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
HISTORY/E ASIAN/ LCA/RELIG ST 308	Introduction to Buddhism	3-4
HISTORY 319	The Vietnam Wars	3-4
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/LCA 450	Making of Modern South Asia	3-4
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HISTORY 463	Topics in South Asian History	3
HISTORY/LCA/ RELIG ST 547	Religion, Colonialism & Modernity in Southeast Asia	3

### GEOGRAPHIC BREADTH: LATIN AMERICAN HISTORY COURSES

Code	Title	Credits
HISTORY 240	Colonial Latin America from Conquest to Insurgency	4
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY 242	Modern Latin America, 1898 to the Present	4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4

HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY 555	History of Brazil	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

### GEOGRAPHIC BREADTH: MIDDLE EASTERN HISTORY COURSES

Code	Title	Credits
HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/GEN&WS/ LCA 472	Women in Turkish Society	3
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4

### GEOGRAPHIC BREADTH: TRANSNATIONAL HISTORY COURSES

Code	Title	Credits
HISTORY 130	An Introduction to World History	3-4
HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
HISTORY 135	Colloquium in Comparative World History	4
HISTORY/LCA 144	Traveling the World: South Asians in Diaspora	4
HISTORY 228	Explorations in Transnational/Comparative History (Social Science)	3
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY 274	History Study Abroad: Transnational/Global History	1-4
HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
HISTORY 319	The Vietnam Wars	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY 357	The Second World War	3-4

HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/ENVIR ST/ F&W ECOL 452	World Forest History	3
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ LEGAL ST 502	Law and Colonialism	3
HISTORY 503	Irish and Scottish Migrations	3
HISTORY 525	The World and the West from 1492	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3

### GEOGRAPHIC BREADTH: U.S. HISTORY COURSES

Code	Title	Credits
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 102	American History, Civil War Era to the Present	4
HISTORY 109	Introduction to U.S. History	3-4
HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4
HISTORY 221	Explorations in American History (H)	3-4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3
HISTORY 272	History Study Abroad: United States History	1-4
HISTORY 302	History of American Thought, 1859 to the Present	3-4
HISTORY 304	United States, 1877-1914	3-4
HISTORY 305	United States 1914-1945	3-4
HISTORY 306	The United States Since 1945	3-4
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4
HISTORY 329	History of American Capitalism	4
HISTORY 343	Colonial British North America	3-4

HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
HISTORY 391	The Age of Jefferson and Jackson, 1789-1848	3-4
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY 408	American Labor History: 1900-Present	3-4
HISTORY/ ED POL 412	History of American Education	3
HISTORY/ JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY 427	The American Military Experience to 1902	3-4
HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4
HISTORY/ECON 466	The American Economy Since 1865	3-4
HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY/ AMER IND 490	American Indian History	3-4
HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3
HISTORY/ JOURN 560	History of Mass Communication	4
HISTORY/L I S 569	History of American Librarianship	3
HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3

## NOTES ON HISTORY BREADTH REQUIREMENTS

- Breadth courses may be taken in any order.

- Chronological Breadth courses may also count toward a Geographic Breadth category.
- Some courses qualify for more than one Geographic Breadth area, but a course may only count for one Geographic Breadth category for the purposes of meeting the requirement.
- Topics courses in history (HISTORY 200, HISTORY 201, HISTORY 221, HISTORY 223, HISTORY 225, HISTORY 227, HISTORY 229, HISTORY 271, HISTORY 272, HISTORY 273, HISTORY 274, HISTORY 275, HISTORY 283, & HISTORY 500) may count for Geographic and/or Chronological Breadth. For topics courses, see the course notes for current breadth information.
- The following courses **may not be used** for breadth in the major: HISTORY 199, HISTORY 600, HISTORY 680, HISTORY 681, HISTORY 682, HISTORY 690, HISTORY 691, HISTORY 692, HISTORY 698, & HISTORY 699.

## HISTORY WRITING AND RESEARCH SEQUENCE:

History majors must complete both of the following:

- HISTORY 201 The Historian's Craft. Students are encouraged to complete History 201 as early as possible.
- HISTORY 600 Advanced Seminar in History, to be taken after satisfactory completion of History 201. Enrolling in a History 600 seminar requires instructor consent. Available seminars can be found on the history department website (<https://history.wisc.edu/history600-seminars>).

## L&S REQUIREMENTS FOR QUALITY AND RESIDENCE IN THE MAJOR:

- 2.000 GPA in HISTORY and required courses in the major
- 2.000 GPA on **15 upper-level major credits in residence**. HISTORY courses designated as intermediate or advanced are upper level in the major.
- 15 credits **HISTORY** taken on **campus**

## GLOBAL HISTORY TRACK

Any undergraduate history major may choose to pursue the Global Track by completing all requirements for the history major above, and these additional requirements:

- Geographic Breadth:** one additional course, in a fifth breadth area; at least one of the five breadth courses must be from the Transnational category
- Foreign Language or Experience Requirement:** one of the following options:
  - Completion of the 5th unit of a single foreign language, defined as the 5th semester of college instruction or the 5th year of high school instruction
  - ESL 118 Academic Writing II
  - 3 credits of coursework from a UW–Madison Study Abroad Program

*Note:* The Global History Track is unofficial and will not be recorded on a student's final transcript. For purposes of graduation auditing, DARS will display the track as an informational section only.

## DISTINCTION IN THE MAJOR

To be awarded Distinction in the Major, students must:

- Achieve a GPA of at least 3.700 out of 4.000 in HISTORY courses

- Complete a minimum of 21 upper-level credits in major coursework. HISTORY courses designated as intermediate or advanced are upper level in the major.
- Complete all requirements of the major

Students should consult the undergraduate advisor in history regarding current requirements for the major.

## HONORS IN THE MAJOR

Students may declare Honors in the History Major in consultation with the History undergraduate advisor.

### HONORS IN HISTORY MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in History students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all HISTORY courses
- Complete at least 36 credits in HISTORY coursework, 21 of which must be upper-level<sup>1</sup> credits in residence
- Complete at least 15 Honors credits in HISTORY coursework
- Complete a two-semester Senior Honors Thesis, a piece of original work of approximately forty pages, in HISTORY 681 Senior Honors Thesis–HISTORY 682 Senior Honors Thesis, taken in conjunction with the HISTORY 680 Honors Thesis Colloquium both semesters. The thesis must be approved by instructors in both the thesis and colloquium courses.

<sup>1</sup> Courses with intermediate or advanced level are upper level in the history major

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### GOALS OF THE MAJOR

The goal of the history major is to offer students the knowledge and skills they need to gain a critical perspective on the past. Students will learn to define important historical questions, analyze the relevant evidence with rigor and creativity, and present convincing conclusions based on original research in a manner that contributes to academic and public discussions. In History, as in other humanistic disciplines, students will practice resourceful inquiry and careful reading. They will advance their writing and public speaking skills to engage historical and contemporary issues.

To ensure that students gain exposure to some of the great diversity of topics, methodologies, and philosophical concerns that inform the study of history, the department requires a combination of courses that offers depth, breadth, and variety of exposition. Through those courses, students should develop:

- Broad acquaintance with several geographic areas of the world and with both the pre-modern and modern eras.
- Familiarity with the range of sources and modes through which historical information can be found and expressed. Sources may include textual, oral, physical, and visual materials. The data within them may be qualitative or quantitative, and they may be available in printed, digital, or other formats. Modes of expression may include textbooks, monographs, scholarly articles, essays, literary works, or digital presentations.
- In-depth understanding of a topic of their choice through original or creative research.
- The ability to identify the skills developed in the history major and to articulate the applicability of those skills to a variety of endeavors and career paths beyond the professional practice of history.

If desired, students may also choose to pursue a Global Track within the History major that emphasizes the study of cross-cultural and transnational historical connections.

### SKILLS DEVELOPED IN THE MAJOR

#### Define Important Historical Questions

- Pose a historical question and explain its academic and public implications.
- Using appropriate research procedures and aids, find the secondary resources in history and other disciplines available to answer a historical question.
- Evaluate the evidentiary and theoretical bases of pertinent historical conversations in order to highlight opportunities for further investigation.

#### Collect and Analyze Evidence

- Identify the range and limitations of sources available to engage the historical problem under investigation.
- Examine the context in which sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
- Employ and, if necessary, modify appropriate theoretical frameworks to examine sources and develop arguments.



### Present Original Conclusions

- Present original and coherent findings through clearly written, persuasive arguments and narratives.
- Orally convey persuasive arguments, whether in formal presentations or informal discussions.
- Use appropriate presentation formats and platforms to share information with academic and public audiences.

### Contribute to Ongoing Discussions

- Extend insights from research to analysis of other historical problems.
- Demonstrate the relevance of a historical perspective to contemporary issues.
- Recognize, challenge, and avoid false analogies, overgeneralizations, anachronisms, and other logical fallacies.

## ADVISING AND CAREERS

Students declared in, or interested in, the history major have numerous advising resources available to them. The advising team is comprised of professional and peer advisors who are excited to talk with students about everything from academic planning to professional development for future careers. Information on the History advising team, how to contact an advisor, how to schedule an appointment, and drop-in advising hours can be found on our website (<https://history.wisc.edu/undergraduate-program/undergraduate-advising>).

The Honors in the Major track in history is intended for students who are eager to experience the excitement of original historical research and who wish to graduate with the best possible undergraduate training in this discipline. Honors in the Major is especially appropriate for students who are considering graduate work in history or who want an especially rigorous training in research, reasoning, and writing skills useful to a wide range of career choices.

Upcoming career events and internship opportunities are also available on the History Advising Blog (<http://uwhistoryadvising.blogspot.com>).

## PEOPLE

Professors Bernault ([http://history.wisc.edu/faculty\\_fb.htm](http://history.wisc.edu/faculty_fb.htm)), Boswell ([http://history.wisc.edu/faculty\\_lb.htm](http://history.wisc.edu/faculty_lb.htm)), Chamberlain ([http://history.wisc.edu/faculty\\_mc.htm](http://history.wisc.edu/faculty_mc.htm)), Cohen ([http://history.wisc.edu/faculty\\_cc.htm](http://history.wisc.edu/faculty_cc.htm)), Cronon ([http://history.wisc.edu/faculty\\_wc.htm](http://history.wisc.edu/faculty_wc.htm)), Desan ([http://history.wisc.edu/faculty\\_sd.htm](http://history.wisc.edu/faculty_sd.htm)), Dunlavy ([http://history.wisc.edu/faculty\\_cd.htm](http://history.wisc.edu/faculty_cd.htm)), Enke ([http://history.wisc.edu/faculty\\_fe.htm](http://history.wisc.edu/faculty_fe.htm)), Enstad ([http://history.wisc.edu/faculty\\_ne.htm](http://history.wisc.edu/faculty_ne.htm)), Hansen ([http://history.wisc.edu/faculty\\_ah.htm](http://history.wisc.edu/faculty_ah.htm)), Hirsch ([http://history.wisc.edu/faculty\\_fh.htm](http://history.wisc.edu/faculty_fh.htm)), Hsia (<https://histsci.wisc.edu/people/faculty/hsia/hsia.shtml>), S. Johnson ([http://history.wisc.edu/faculty\\_sj.htm](http://history.wisc.edu/faculty_sj.htm)), Kantrowitz ([http://history.wisc.edu/faculty\\_sk.htm](http://history.wisc.edu/faculty_sk.htm)), Kleijwegt ([http://history.wisc.edu/faculty\\_mk.htm](http://history.wisc.edu/faculty_mk.htm)), Koshar ([http://history.wisc.edu/faculty\\_rk.htm](http://history.wisc.edu/faculty_rk.htm)), Mallon ([http://history.wisc.edu/emeriti\\_fm.htm](http://history.wisc.edu/emeriti_fm.htm)), McCoy ([http://history.wisc.edu/faculty\\_am.htm](http://history.wisc.edu/faculty_am.htm)), McDonald ([http://history.wisc.edu/faculty\\_dm.htm](http://history.wisc.edu/faculty_dm.htm)), Michels ([http://history.wisc.edu/faculty\\_tm.htm](http://history.wisc.edu/faculty_tm.htm)), Mitman ([http://history.wisc.edu/faculty\\_gm.htm](http://history.wisc.edu/faculty_gm.htm)), Neville ([http://history.wisc.edu/faculty\\_ln.htm](http://history.wisc.edu/faculty_ln.htm)), Nyhart (<http://go.wisc.edu/nyhart>), Plummer ([http://history.wisc.edu/faculty\\_bp.htm](http://history.wisc.edu/faculty_bp.htm)), Reese ([http://history.wisc.edu/faculty\\_wr.htm](http://history.wisc.edu/faculty_wr.htm)), Roberts ([\[history.wisc.edu/faculty\\\_mlr.htm\]\(http://history.wisc.edu/faculty\_mlr.htm\)\), Schatzberg \(<http://go.wisc.edu/schatzberg>\), Sharpless \(\[http://history.wisc.edu/faculty\\\_js.htm\]\(http://history.wisc.edu/faculty\_js.htm\)\), Sommerville \(\[http://history.wisc.edu/faculty\\\_jso.htm\]\(http://history.wisc.edu/faculty\_jso.htm\)\), Stern \(\[http://history.wisc.edu/emeriti\\\_ss.htm\]\(http://history.wisc.edu/emeriti\_ss.htm\)\), Sweet \(\[http://history.wisc.edu/faculty\\\_jsw.htm\]\(http://history.wisc.edu/faculty\_jsw.htm\)\), Wandel \(\[http://history.wisc.edu/faculty\\\_lw.htm\]\(http://history.wisc.edu/faculty\_lw.htm\)\), Wink \(\[http://history.wisc.edu/faculty\\\_aw.htm\]\(http://history.wisc.edu/faculty\_aw.htm\)\), Young \(\[http://history.wisc.edu/faculty\\\_ly.htm\]\(http://history.wisc.edu/faculty\_ly.htm\)\)](http://</a></p>
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Associate Professors Cheng ([http://history.wisc.edu/faculty\\_cic.htm](http://history.wisc.edu/faculty_cic.htm)), Dennis ([http://history.wisc.edu/faculty\\_jd.htm](http://history.wisc.edu/faculty_jd.htm)), Hall ([http://history.wisc.edu/faculty\\_jh.htm](http://history.wisc.edu/faculty_jh.htm)), Ipsen ([http://history.wisc.edu/faculty\\_pi.htm](http://history.wisc.edu/faculty_pi.htm)), Kodesh ([http://history.wisc.edu/faculty\\_nk.htm](http://history.wisc.edu/faculty_nk.htm)), Murthy ([http://history.wisc.edu/faculty\\_vm.htm](http://history.wisc.edu/faculty_vm.htm)), Ratner-Rosenhagen ([http://history.wisc.edu/faculty\\_jrr.htm](http://history.wisc.edu/faculty_jrr.htm)), Shoemaker ([http://history.wisc.edu/faculty\\_ks.htm](http://history.wisc.edu/faculty_ks.htm)), Thal ([http://history.wisc.edu/faculty\\_st.htm](http://history.wisc.edu/faculty_st.htm))

Assistant Professors Callaci ([http://history.wisc.edu/faculty\\_ec.htm](http://history.wisc.edu/faculty_ec.htm)), Chamedes ([http://history.wisc.edu/faculty\\_gc.htm](http://history.wisc.edu/faculty_gc.htm)), Chan ([http://history.wisc.edu/faculty\\_sc.htm](http://history.wisc.edu/faculty_sc.htm)), Ciancia ([http://history.wisc.edu/faculty\\_kc.htm](http://history.wisc.edu/faculty_kc.htm)), Haynes ([http://history.wisc.edu/faculty\\_aha.htm](http://history.wisc.edu/faculty_aha.htm)), Hennessy ([http://history.wisc.edu/faculty\\_eh.htm](http://history.wisc.edu/faculty_eh.htm)), Jackson (<http://go.wisc.edu/jackson>), Kim ([http://history.wisc.edu/faculty\\_ck.htm](http://history.wisc.edu/faculty_ck.htm)), Kinzley ([http://history.wisc.edu/faculty\\_jk.htm](http://history.wisc.edu/faculty_jk.htm)), Lapina ([http://history.wisc.edu/faculty\\_el.htm](http://history.wisc.edu/faculty_el.htm)), Nelson (<http://go.wisc.edu/nnelson>), Taylor ([http://history.wisc.edu/faculty\\_ct.htm](http://history.wisc.edu/faculty_ct.htm)), Ussishkin ([http://history.wisc.edu/faculty\\_du.htm](http://history.wisc.edu/faculty_du.htm)), Whiting ([http://history.wisc.edu/faculty\\_gw.htm](http://history.wisc.edu/faculty_gw.htm))

Teaching Associates Carlsson ([http://history.wisc.edu/teachingassociate\\_ec.htm](http://history.wisc.edu/teachingassociate_ec.htm)), Cullinane ([http://history.wisc.edu/teachingassociate\\_mc.htm](http://history.wisc.edu/teachingassociate_mc.htm)), Keyser ([http://history.wisc.edu/teachingassociate\\_rk.htm](http://history.wisc.edu/teachingassociate_rk.htm))

## RESOURCES AND SCHOLARSHIPS

### THE HISTORY LAB

The History Lab is a resource center for undergraduate students studying, researching, and writing about the past. It is staffed by talented and experienced graduate students from the Department of History.

Through individual and group tutoring, the Lab focuses on honing students' abilities to form suitable topics, conduct research, develop arguments and thesis statements, cite evidence properly, and write using an effective process. The lab is equipped also to support challenges faced by English-language learners.

For more information or to make an appointment, see the History Lab website. (<https://history.wisc.edu/undergraduate-program/the-history-lab>)

### RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

The Department of History is committed to supporting undergraduate achievement and encourages applications for the various scholarships and research fellowships made possible by the generosity of its donors. Scholarships are designed to reward outstanding History majors and are awarded annually. Research fellowships allow undergraduates to pursue in-depth historical research under the guidance of Department of History faculty. These awards help defray research costs such as supplies and

travel expenses or pay for living expenses to allow students time to craft their papers and conduct research in UW Libraries.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/history-the-wisconsin-experience/undergraduate-scholarships>).

Applications need to be submitted online, via Scholarships@UW-Madison (<http://scholarships.wisc.edu/Scholarships>).

## UNDERGRADUATE WRITING PRIZES

The history department offers an assortment of essay prizes designed to reward a broad range of undergraduate writing—from Senior Theses to term papers to specialized essays in German-Jewish history. The prizes are made possible thanks to the tremendous generosity of our alumni and former members of our faculty. The history department expresses its gratitude for their support in recognizing the achievements of our undergraduates.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/history-the-wisconsin-experience/undergraduate-scholarships>). Applications need to be submitted online, via Scholarships@UW-Madison (<http://scholarships.wisc.edu/Scholarships>).

## MEDIEVAL STUDIES, CERTIFICATE

Medieval studies offers students interdisciplinary perspectives on the history of Europe and the Mediterranean rim between ca. 300-1500. courses spanning 18 departments allow students to explore the medieval world from the standpoints of art, visual and material culture, history, law, languages and literature, music, philosophy, religious studies and the history of science and medicine. The certificate in medieval studies is designed to encourage pursuit of interdisciplinary work among several departments.

The Middle Ages was a dynamic period of trans-continental trade and travel that fostered cultural, technological and scientific interactions among the kingdoms and city states of Western Europe, the Byzantine (East Roman) Empire and the Islamic caliphates that eventually encompassed much of Spain, north Africa and the Middle East. It is also known that the Norse (Vikings) established settlements in North America as early as ca. 1000, some 500 years before Columbus.

In Western Europe, the Middle Ages laid the foundations of constitutional government and modern nation-states, instituted a system of trial by jury, and developed the first universities along with the concept of a liberal arts curriculum (encompassing both arts and sciences). The period also saw the development of English, Germanic, Scandinavian and romance languages and literature, which came to eclipse Latin by the end of the fourteenth century as vehicles for secular poetry and prose. Further east, Greek dominated the territory of the Byzantine Empire, while the foundation of the Kievan Rus coincided with the development of Cyrillic script used by Russian and other Slavic languages. The Islamic world saw the wide diffusion of Arabic languages and literature, including scientific works which served to mediate knowledge of Greek natural philosophy and medical science to Western Europe.

Other significant cultural developments include the development of the codex or book often with elaborate programs of visual imagery and diagrams, the innovation of musical notation and early forms of polyphony in Europe, the application of optical science to urban planning

and of one-point perspective to painting especially in Italy, and the refinement of structural engineering that led to the soaring light-filled architecture of Gothic cathedrals in Western Europe and expansive centralized domed spaces in the Byzantine Empire and related Orthodox states, as well as in the Islamic world.

The program's focus is embodied in the interdisciplinary courses offered under the auspices of medieval studies. For example, MEDIEVAL/HISTORY 215 Life in the Middle Ages: An Inter-Departmental Course provides a survey of civilization and culture in medieval times.

The program cross-lists a number of courses on particular aspects of medieval history and culture that are offered by participating departments, helps to publicize courses with medieval subject matter that are not permanently cross-listed, and offers opportunities for students to undertake independent-study projects with participating faculty members. It also regularly organizes public programming on specific themes under the auspices of the Borghesi-Mellon Workshops administered by the Center for the Humanities.

In addition to departments and programs that cross-list courses with Medieval Studies—Art History, CANES (Classical and Near Eastern Studies), English, French and Italian, German, History, History of Medicine, History of Science, Religious Studies, Scandinavian Studies, Spanish and Portuguese, Women's Studies—the following departments and programs occasionally offer courses and seminars in the medieval area: African Languages and Literature, Comparative Literature, Folklore, Languages and Cultures of Asia, Music, Philosophy, and Political Science.

Like a minor, the certificate documents a rigorous course of study in addition to the major(s). It attests ambitious intellectual goals as well as the ability to imagine historical problems in transnational and transcultural perspectives. As a credential, it demonstrates a capacity for comparative critical thinking and analysis, skills that appeal to a wide range of potential employers.

## HOW TO GET IN

Students interested in working toward the certificate should contact the director of medieval studies as early in their degree program as possible. The director serves as the undergraduate advisor for all students pursuing the certificate. For further information see the Medieval Studies website (<http://www.medievalstudies.wisc.edu>).

## REQUIREMENTS

The certificate requires the completion of **five courses (15 credits)** in the medieval area, according to the following distributional requirements.

Students interested in working toward the certificate should contact the director of medieval studies as early in their degree program as possible. The director serves as the undergraduate advisor for all students pursuing the certificate. For further information see the Medieval Studies website (<http://www.medievalstudies.wisc.edu>).

Code	Title	Credits
Select one of the following: 3-4		
HISTORY 115	Medieval Europe 410-1500	
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	
ILS 201	Western Culture: Science, Technology, Philosophy I	

Select two courses focused on the medieval period from Category A (history, history of science, philosophy, and political science)<sup>1</sup> 6

Select two courses focused on the medieval period from Category B (language, literature, visual arts, and music)<sup>1</sup> 6

Total Credits 15-16

<sup>1</sup> For a list of which individual courses count toward Category A and which toward Category B, see the course lists below.

### Category A Course List

Code	Title	Credits
<i>Category A Courses</i>		
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 200	Historical Studies	3
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY 333	The Renaissance	3-4
HISTORY 417	History of Russia	3-4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY 600	Advanced Seminar in History	3
HIST SCI/ S&A PHM 401	History of Pharmacy	2
HIST SCI/HISTORY/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3
HIST SCI 622	Studies in Ancient and Medieval Science	1
ILS 201	Western Culture: Science, Technology, Philosophy I	3
ILS 205	Western Culture: Political, Economic, and Social Thought I	3
ILS 271	Pre-Copernican Astronomy and Cosmology in Crosscultural Perspective	3
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4
JEWISH 490	Topics in Jewish Studies	3

MEDIEVAL/ HISTORY 215	Life in the Middle Ages: An Inter- Departmental Course	3-4
MEDIEVAL/ CLASSICS/ FRENCH/HISTORY/ ITALIAN 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3

### Category B Course List

Code	Title	Credits
<i>Category B Courses</i>		
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST 310	Early Christian and Byzantine Art	3-4
ART HIST 318	Romanesque and Gothic Art and Architecture	3-4
ART HIST 320	Italian Renaissance Art	3-4
ART HIST 321	Italian Art: 1250-1400	3-4
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500	3-4
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530	3-4
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	3-4
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	3
ART HIST 515	Proseminar in Medieval Art	3
ART HIST 525	Proseminar in Italian Renaissance Art	3
ART HIST 535	Proseminar in Northern European Painting	3
ART HIST 600	Special Topics in Art History ("Medieval" topic only)	3
ENGL/ MEDIEVAL 520	Old English	3
ENGL/ MEDIEVAL 521	Advanced Old English Literature	3
ENGL/ MEDIEVAL 522	Middle English Language	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
GERMAN/ MEDIEVAL 611	Survey of German Literature to 1700	3
GERMAN 650	History of the German Language	3
GERMAN/ MEDIEVAL 651	Introduction to Middle High German	3
ILS 203	Western Culture: Literature and the Arts I	3
ITALIAN 321	Introduction to Italian Literature	3

ITALIAN/ MIEVEAL 659	Dante's Divina Commedia	3
ITALIAN/ MIEVEAL 660	Dante's Divina Commedia	3
ITALIAN/ MIEVEAL 671	Il Duecento	3
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4
JEWISH 490	Topics in Jewish Studies ("Medieval" topic only)	3
LATIN/ MIEVEAL 563	Mediaeval Latin	3
LITTRANS/ MIEVEAL 235	The World of Sagas	3
LITTRANS/ MIEVEAL/ RELIG ST 253	Literature in Translation: Dante's Divine Comedy	3
LITTRANS 255	Literature in Translation: Boccaccio's Decameron-The Human Comedy	3
LITTRANS 256	Lit in Translation: Images of the Individual in the Italian Renaissance	3
LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	3-4
LITTRANS/ FOLKLORE/ MIEVEAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4
LITTRANS/ FOLKLORE/ MIEVEAL 345	In Translation: The Scandinavian Tale and Ballad	3-4
LITTRANS/ FOLKLORE/ MIEVEAL 346	In Translation: The Icelandic Sagas	3-4
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
MIEVEAL/ HISTORY/JEWISH/ RELIG ST 368	The Bible in the Middle Ages	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
SCAND ST/ MIEVEAL 407	Old Norse	3
SCAND ST/ MIEVEAL 409	Survey of Old Norse-Icelandic Literature	3
SCAND ST/ MIEVEAL 430	The Vikings	4
SCAND ST 433	The Scandinavian Tale and Ballad	4
SCAND ST 435	The Icelandic Sagas	4
SCAND ST/ MIEVEAL 444	Kalevala and Finnish Folk-Lore	4

SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	3
SPANISH/ MIEVEAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH/ MIEVEAL 503	Survey of Medieval Literature	3
SPANISH/ MIEVEAL 504	Survey of Medieval Literature	3
SPANISH/ MIEVEAL 541	Old Spanish	3

## RESIDENCE AND QUALITY OF WORK

8 credits counting toward the certificate, taken in residence

A cumulative 3.000 GPA in all courses counting toward the certificate

## ADDITIONAL NOTES

In addition to the required courses, all certificate candidates are encouraged to enhance their work in medieval studies by acquiring a reading knowledge of a modern European language as early as possible. Studying Latin in addition is strongly recommended for those who plan to graduate work in the field.

In consultation with the director, students may choose to work beyond the certificate to a self-designed major in medieval studies. For further information, contact the director of medieval studies.

## LEARNING OUTCOMES

The aim of the Medieval Studies Program is to apply interdisciplinary approaches to the rich history and culture of this long historical period. Opportunities for studies in this area are intended:

1. to provide opportunities for students and faculty to pool their interests and knowledge and explore the interrelationships among the medieval studies disciplines in ways usually not feasible within conventional academic compartmentalization;
2. to help interested undergraduates develop skills in historical languages, critical reading of primary sources of all kinds (texts, visual and material culture, music and oral culture), historiography and current methodologies necessary to prepare them for graduate studies in medieval areas;
3. to provide opportunities for students and faculty to pool their interests and knowledge and explore the interrelationships among the medieval disciplines in ways usually not feasible within conventional academic compartmentalization;
4. to offer the non-specialist critical analytical skills and historical perspectives on current issues such as religious conflict and the concept of "holy war", colonialism and cultural globalism, gender and sexual identity, scientific and technological innovation; and
5. to foster appreciation of all aspects of medieval culture and its manifestations in contemporary popular culture.

## ADVISING AND CAREERS

Students can obtain advising for the certificate by contacting the director of medieval studies. The director serves as the undergraduate advisor

for all students pursuing the certificate. For further information see the Medieval Studies website (<http://www.medievalstudies.wisc.edu>).

## INSTITUTE FOR REGIONAL AND INTERNATIONAL STUDIES

### DEGREES/MAJORS/CERTIFICATES

- African Studies, Certificate (p. 741)
- Asian Studies, B.A. (p. 745)
- Asian Studies, B.S. (p. 750)
- East Asian Studies, Certificate (p. 755)
- European Studies, Certificate (p. 757)
- Global Cultures, Certificate (p. 768)
- International Studies, B.A. (p. 769)
- International Studies, B.S. (p. 814)
- Latin American, Caribbean, and Iberian Studies, B.A. (p. 859)
- Latin American, Caribbean, and Iberian Studies, B.S. (p. 865)
- Middle East Studies, Certificate (p. 872)
- Russian, East European, and Central Asian Studies, Certificate (p. 875)
- South Asian Studies, Certificate (p. 878)
- Southeast Asian Studies, Certificate (p. 882)

## AFRICAN STUDIES, CERTIFICATE

The African Studies Program supports research, teaching, and outreach at the University of Wisconsin–Madison, bringing together scholars in multiple disciplines, students, teachers, and community partners to consider all aspects of land and life in Africa. The African Studies Program is a U. S. Department of Education Title VI National Resource Center for Africa, a unit in The International Division, and a member of the campus consortium of internationally oriented programs known as the Institute for Regional and International Studies (<http://iris.wisc.edu>).

The program was established in 1961 by an interdisciplinary team of internationally respected scholars including Jan Vasina, Philip Curtin, Frederick Simoons, and Aristrade Zolberg. The center continues to enjoy a reputation for excellence, having awarded more degrees to Africa specialists than any other American university. No other university boasts such a depth and range of expertise in Africanist scholarship. Over 70 affiliated faculty offer more than 100 courses in 35 departments around campus. The department of African Cultural Studies offers students an opportunity to study a number of African languages including Arabic, Hausa, Swahili, Yoruba, Wolof, and Zulu, as well as options for self-directed study of less-commonly taught languages.

Undergraduates from any department can benefit from access to our programs and top ranked faculty by completing a certificate in African studies. The certificate is highly interdisciplinary and welcomes students with backgrounds in the humanities, social sciences, business, health, agriculture, or the environment. What unites certificate students is a shared interest in the people, places, and stories of the continent of Africa.

A certificate in African Studies indicates that a student has acquired an interdisciplinary knowledge about the African continent, its histories, its stories, and its people. African studies alumni serve in a number of important leadership positions in both the private and public sector. Former students have gone on to serve as ambassadors, presidential advisors, and leaders of investment firms and Washington think tanks. Many undergraduate certificate holders launch their internationally-oriented careers by joining the Peace Corps after graduation.

### HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the African Studies Program office ([asp@africa.wisc.edu](mailto:asp@africa.wisc.edu)) or the undergraduate advisor ([advising@africa.wisc.edu](mailto:advising@africa.wisc.edu)).

### REQUIREMENTS

#### CERTIFICATE REQUIREMENTS

#### 15 CREDITS IN AFRICAN STUDIES APPROVED COURSES

At least two SUBJECTs represented: <sup>1</sup>

Code	Title	Credits
AFRICAN 100	Introduction to African Cultural Expression	3
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN 201	Introduction to African Literature	3
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 211	The African Autobiography	3
AFRICAN 212	Introduction to African Popular Culture	3-4
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN 301	Introduction to African Linguistics	3
AFRICAN 303	African Literature and Visual Culture	3

AFRICAN/ LCA LANG 321	First Semester Arabic	4-5	AFRICAN/ FRENCH 440	African/Francophone Film	3
AFRICAN/ LCA LANG 322	Second Semester Arabic	4-5	AFRICAN/ LCA LANG 445	Readings in Advanced Arabic Texts	3
AFRICAN/ LCA LANG 323	Third Semester Arabic	4	AFRICAN/ LCA LANG 446	Readings in Advanced Arabic Texts	3
AFRICAN/ LCA LANG 324	Fourth Semester Arabic	4	AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 325	Colloquial Arabic	2	AFRICAN 453	Modern African Literature in English	3-4
AFRICAN 326	Colloquial Arabic	2	AFRICAN/ LCA LANG 427	Intermediate Summer Immersion Arabic	8
AFRICAN 331	First Semester Swahili	5	AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
AFRICAN 332	Second Semester Swahili	4-5	AFRICAN 475	Fifth Semester Yoruba	3
AFRICAN 333	Third Semester Swahili	4	AFRICAN 476	Sixth Semester Yoruba	3
AFRICAN 334	Fourth Semester Swahili	4	AFRICAN 491	Fifth Semester, A Language of Central Africa	3
AFRICAN 335	First Semester-A Language of Southern Africa	5	AFRICAN 493	Fifth Semester, A Language of Southern Africa	3
AFRICAN 336	Second Semester-A Language of Southern Africa	4-5	AFRICAN 494	Sixth Semester, A Language of Southern Africa	3
AFRICAN 337	Third Semester-A Language of Southern Africa	4	AFRICAN 495	Fifth Semester, A Language of Northern Africa	3
AFRICAN 338	Fourth Semester-A Language of Southern Africa	4	AFRICAN 496	Sixth Semester, A Language of Northern Africa	3
AFRICAN 353	Third Semester Xhosa	4	AFRICAN 497	Fifth Semester, A Language of West Africa	3
AFRICAN 354	Fourth Semester Xhosa	4	AFRICAN 498	Sixth Semester, A Language of West Africa	3
AFRICAN 361	First Semester Hausa	5	AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 362	Second Semester Hausa	4-5	AFRICAN 501	Structure and Analysis of African Languages	3-4
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4	AFRICAN 503	African Linguistic Structures- Morphology and Syntax	3-4
AFRICAN 371	First Semester Yoruba	5	AFRICAN 605	Advanced Topics in African Cultural Studies	3
AFRICAN 372	Second Semester Yoruba	5	AFRICAN 609	Advanced Topics in Global Black Music Studies	3
AFRICAN 373	Third Semester Yoruba	4	AFRICAN 669	Special Topics	3
AFRICAN 374	Fourth Semester Yoruba	4	AFRICAN 670	Theories and Methods of Learning a Less Commonly Taught Language	2
AFRICAN 391	First Semester-A Language of West Africa	4-5	AFRICAN 671	Multilanguage Seminar	4
AFRICAN 392	Second Semester-A Language of West Africa	4-5	AFRICAN 697	Directed Study of a Less Commonly Taught Language	3-5
AFRICAN 393	Third Semester-A Language of West Africa	4	AFRICAN 698	Directed Study	1-6
AFRICAN 394	Fourth Semester-A Language of West Africa	4	AFRICAN 699	Directed Study	1-6
AFRICAN 402	Theory of African Literature	3-4	AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFRICAN 405	Topics in African Cultural Studies	3	AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFRICAN 407	Topics in African Languages	3	AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFRICAN 409	Topics in US and Global Black Music Studies	3			
AFRICAN/ FOLKLORE 411	African Poetry	3-4			
AFRICAN 412	Contemporary African Fiction	3-4			
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4			
AFRICAN 435	Advanced Studies in Swahili Language-Grammar	3			
AFRICAN 436	Advanced Studies in Swahili Language-Readings	3			

AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	FRENCH 665	Introduction aux etudes francophones	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4	GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3	GEOG/ENVIR ST 339	Environmental Conservation	4
AFROAMER 675	Selected Topics in Afro-American Culture	3	GEOG 355	Africa, South of the Sahara	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3	HISTORY 105	Introduction to the History of Africa	3-4
A A E/ECON 474	Economic Problems of Developing Areas	3	HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
A A E/ECON 477	Agricultural and Economic Development in Africa	3	HISTORY 225	Explorations in Third World History (H)	3-4
ANTHRO 120	Freshman/Sophomore Seminar in Anthropology	3	HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	HISTORY 278	Africans in the Americas, 1492-1808	3-4
ANTHRO 333	Prehistory of Africa	3	HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3	HISTORY 283	Intermediate Honors Seminar- Studies in History	3
ANTHRO 348	Economic Anthropology	3-4	HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
ANTHRO 391	Bones for the Archaeologist	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
ANTHRO 490	Undergraduate Seminar	3	HISTORY 377	History of Africa, 1500 to 1870	3-4
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	3	HISTORY 378	History of Africa Since 1870	3-4
ART HIST 579	Proseminar in African Art	3	HISTORY 444	History of East Africa	3-4
DANCE 118	African Dance	1	HISTORY 445	History of Equatorial Africa	3-4
DANCE 165	World Dance Cultures: Traditional to Contemporary	3	HISTORY 600	Advanced Seminar in History (When topic is Africa-related)	3
DANCE/ THEATRE 218	African Dance Performance	2	JOURN 620	International Communication	4
DANCE/AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	INTL ST/ED POL 335	Globalization and Education	3
ECON/A A E 474	Economic Problems of Developing Areas	3	INTL ST/A A E 373	Globalization, Poverty and Development	3
ED POL 150	Education and Public Policy	3	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
ENVIR ST/GEOG 339	Environmental Conservation	4	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3
ECON/A A E 477	Agricultural and Economic Development in Africa	3	LCA LANG/ AFRICAN 321	First Semester Arabic	4-5
FOLKLORE/ AFRICAN 210	The African Storyteller	3	LCA LANG/ AFRICAN 322	Second Semester Arabic	4-5
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	LCA LANG/ AFRICAN 323	Third Semester Arabic	4
FOLKLORE/ AFRICAN 411	African Poetry	3-4	LCA LANG/ AFRICAN 324	Fourth Semester Arabic	4
FOLKLORE/ AFRICAN 471	Oral Traditions and the Written Word	3-4	LCA LANG/ AFRICAN 445	Readings in Advanced Arabic Texts	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3	LCA LANG/ AFRICAN 446	Readings in Advanced Arabic Texts	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
			MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3

MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI 329	African Politics	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI 437	Nationalism and Ethnic Conflict	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 455	African International Relations	3-4
JOURN 621	Mass Communication in Developing Nations	4
PORTUG/ AFRICAN 451	Lusophone African Literature	3
RELIG ST/HISTORY/ LCA 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
RELIG ST/CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean	3
SOC/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/ POLI SCI 277	Africa: An Introductory Survey	4

<sup>1</sup> No more than two courses from any one SUBJECT may count toward the certificate. A cross-listed course may count in either—but not both—SUBJECTS in which it is cross-listed.

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

8 credits in the certificate, in residence

## LEARNING OUTCOMES

- Historical Grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
- Multi-disciplinarity:** analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives,

ideally including humanities, social sciences and sometimes natural science approaches.

**3. Depth of knowledge:** mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline

## ADVISING AND CAREERS

We require that students visit with the advisor at least once per semester. Advising for the certificate is run by the African Studies Program advisor, who can assist you in developing your plan of study for the certificate, track progress toward the certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments.

We strongly encourage students to enroll in Africa: An Introductory Survey (AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI/ SOC 277), to study an African language, and to study abroad on the continent.

### Resources:

- Make a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

205 Ingraham Hall  
1155 Observatory Drive  
Madison, WI 53706  
phone: 608-262-2380  
fax: 608-265-5851  
[africa.wisc.edu/](http://africa.wisc.edu) (<http://africa.wisc.edu>)  
[advising@africa.wisc.edu](mailto:advising@africa.wisc.edu)

Neil Kodesh, Faculty Director, [kodesh@wisc.edu](mailto:kodesh@wisc.edu)  
Aleia McCord, Associate Director, [aleia.mccord@wisc.edu](mailto:aleia.mccord@wisc.edu)

Faculty members specializing on Africa are based in more than 40 departments throughout the university's schools and colleges.

African Studies Program Steering Committee:

Kodesh (History)

Fair (African Cultural Studies)

Olaniyan (African Cultural Studies)

Turner (Geography)

Conway (School of Medicine and Public Health)



## ASIAN STUDIES, B.A.

Asian Studies is divided into two concentrations:

- East Asian Studies
- Southeast Asian Studies

### CONCENTRATION IN EAST ASIAN STUDIES

The Asian studies major with an East Asian studies concentration encompasses China, Japan, and Korea—Pacific Rim nations characterized by rich cultural heritages, critical geopolitical positions and rapidly expanding economies. East Asia plays a central role in world politics and the global economy, and the importance of this region will increase in the 21st century.

This concentration is for undergraduates who are interested in a wide range of careers (business, public service, law, teaching, research, etc.) and who seek a focused yet multidisciplinary education with solid grounding in East Asian language and civilization. Students interested in the major should begin language study as early as possible.

### CONCENTRATION IN SOUTHEAST ASIAN STUDIES

The Asian studies major with a Southeast Asian concentration is an undergraduate major in the College of Letters & Science, providing a comprehensive foundation in Southeast Asian language and area studies. It includes Burma (Myanmar), Brunei, Cambodia (Kampuchea), East Timor, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and Vietnam. Students are required to take a minimum of four semesters of a Southeast Asian language, and complete a minimum of thirty credits of Southeast Asian area studies coursework. The area studies courses must be taken in at least two academic disciplines, including courses in Southeast Asian humanities and social sciences. Students may opt to prepare a 6-credit senior thesis.

## HOW TO GET IN

### CONCENTRATION IN SOUTHEAST ASIAN STUDIES

#### DECLARING THE MAJOR

The major should be declared no later than the beginning of the junior year. (**All L&S students must declare a major by the time they have earned 86 degree credits.**) Students with no previous language training or proficiency should consider beginning language study during their sophomore year, since language course sequences begin only once per year during the fall semester. Students interested in Southeast Asia are encouraged to consult with the undergraduate advisor (mmcullin@wisc.edu) at any time from the freshman year onward to discuss the program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

The Asian studies majors requires that students concentrate in one of two options: **East Asian Studies** or **Southeast Asian Studies**. Students **must declare** one (and only one) of these concentrations. Both concentrations require 30 credits.

### CONCENTRATION IN EAST ASIAN STUDIES <sup>1</sup>

Code	Title	Credits
<b>Fourth Unit of Language—choose one:</b>		8-12
E ASIAN 201 & E ASIAN 202	Third Semester Chinese and Fourth Semester Chinese	
E ASIAN 203 & E ASIAN 204	Third Semester Japanese and Fourth Semester Japanese	
E ASIAN 345 & E ASIAN 346	Third Semester Korean and Fourth Semester Korean	
LCA LANG 469 & LCA LANG 470	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	
<b>Humanities: 8 credits must be concentrated in a single SUBJECT</b>		8
ART HIST 203	Survey of Asian Art	
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	
ART HIST 371	Chinese Painting	
ART HIST 372	Arts of Japan	
ART HIST 411	Topics in Asian Art	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/RELIG ST 478	Art and Religious Practice in Medieval Japan	

ART HIST 575	Proseminar in Japanese Art
ART HIST 576	Proseminar in Chinese Art
E A STDS/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations
E A STDS/E ASIAN 300	Humanities Topics in East Asian Studies
E A STDS 691	Senior Thesis
E A STDS 692	Senior Thesis
E ASIAN/LCA/RELIG ST 235	Genres of Asian Religious Writing
E ASIAN 253	Introduction to Japanese Culture and Civilization
E ASIAN/KINES 277	Kendo: Integration of Martial Arts and Liberal Arts
E ASIAN/E A STDS 300	Humanities Topics in East Asian Studies (Korean Culture)
E ASIAN/HISTORY/LCA/RELIG ST 308	Introduction to Buddhism
E ASIAN/RELIG ST 350	Introduction to Taoism
E ASIAN 351	Survey of Chinese Literature
E ASIAN 352	Survey of Chinese Literature
E ASIAN 353	Survey of Japanese Literature
E ASIAN 354	Survey of Japanese Literature
E ASIAN 356	Chinese Painting
E ASIAN 358	Language in Japanese Society
E ASIAN/RELIG ST 363	Introduction to Confucianism
E ASIAN 367	Japanese Poetic Tradition
E ASIAN 371	Topics in Chinese Literature
E ASIAN 376	Manga.
E ASIAN 378	Anime
E ASIAN 433	Topics in East Asian Visual Cultures
E ASIAN 520	Popular Culture and Film in Twentieth-Century China
E ASIAN 563	Readings in Modern Japanese Literature
E ASIAN 564	Readings in Modern Japanese Literature
E ASIAN 573	Readings in Classical Japanese Literature
E ASIAN 574	Readings in Classical Japanese Literature
E ASIAN 631	History of the Chinese Language
E ASIAN 632	History of the Chinese Language
E ASIAN 651	History of Chinese Literature
E ASIAN 652	History of Chinese Literature
E ASIAN 672	Literary Studies in Chinese Fiction
HISTORY/E A STDS 103	Introduction to East Asian History: China
HISTORY/E A STDS 104	Introduction to East Asian History: Japan

HISTORY 225	Explorations in Third World History (H) (China, Japan, Korea)
HISTORY 335	Korean History, 1945 to present
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919
HISTORY/ E A STDS 341	History of Modern China, 1800-1949
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present
HISTORY/ E A STDS 454	Samurai: History and Image
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
HISTORY 500	Reading Seminar in History
INTL ST 310	International Learning Community Seminar (China, East Asia, Japan, Korea, Tibet)
LITTRANS 261	Survey of Chinese Literature in Translation
LITTRANS 262	Survey of Chinese Literature in Translation
LITTRANS 263	Survey of Japanese Literature in Translation
LITTRANS 264	Survey of Japanese Literature in Translation
LITTRANS 368	Modern Japanese Fiction
LITTRANS 372	Classical Japanese Prose in Translation
LITTRANS 373	Topics in Japanese Literature
LITTRANS 374	Topics in Korean Literature
THEATRE/ FOLKLORE 326	Introduction to Asian Performance
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 526	The Theatres of China and Japan
<b>Social Science: 8 credits must be concentrated in a single SUBJECT</b>	
A A E 319	The International Agricultural Economy
A A E/ECON 474	Economic Problems of Developing Areas
ANTHRO 310	Topics in Archaeology (East Asia, Southeast Asia)
ANTHRO 330	Topics in Ethnology
ANTHRO 357	Introduction to the Anthropology of Japan
E A STDS 301	Social Studies Topics in East Asian Studies
ECON/A A E 474	Economic Problems of Developing Areas
E P D/ E ASIAN 330	Basic Technical Japanese I
E P D/ E ASIAN 332	Basic Technical Japanese II

E P D/ E ASIAN 374	Intermediate Technical Japanese I
E P D/ E ASIAN 375	Intermediate Technical Japanese II
GEOG 101	Introduction to Human Geography
GEOG 358	Human Geography of Southeast Asia
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
HISTORY/ LCA 457	History of Southeast Asia to 1800
HISTORY/ LCA 458	History of Southeast Asia Since 1800
JOURN 621	Mass Communication in Developing Nations
POLI SCI 201	Special Topics in Political Science (East Asia, Southeast Asia)
POLI SCI/ E A STDS/ HISTORY 255	Introduction to East Asian Civilizations
POLI SCI 346	China in World Politics
POLI SCI 640	Politics of Japan
POLI SCI 654	Politics of Revolution
SOC/ C&E SOC 222	Food, Culture, and Society

<sup>1</sup> Courses counted toward humanities may not also count toward social science, and vice versa. However, humanities and social science courses *may* count toward the concentration requirement if taken in a single SUBJECT.

<sup>2</sup> Students can also fulfill the East Asian language requirement with the following courses: **Chinese**—E ASIAN 301 Fifth Semester Chinese, E ASIAN 302 Sixth Semester Chinese, E ASIAN 321 First Year Classical Chinese, E ASIAN 322 First Year Classical Chinese, E ASIAN 333 Chinese Conversation, E ASIAN 341 Classical Chinese for Non-Majors, E ASIAN 342 Classical Chinese for Non-Majors, E ASIAN 401 Seventh Semester Chinese, E ASIAN 402 Eighth Semester Chinese, E ASIAN 379 Business Chinese, E ASIAN 631 History of the Chinese Language; **Japanese**—E ASIAN 303 Fifth Semester Japanese, E ASIAN 304 Sixth Semester Japanese, E ASIAN 323 First Year Classical Japanese, E ASIAN/E P D 330 Basic Technical Japanese I, E ASIAN/E P D 332 Basic Technical Japanese II, E ASIAN 335 Intermediate Japanese Conversation, E ASIAN/E P D 374 Intermediate Technical Japanese I, E ASIAN 403 Seventh Semester Japanese, E ASIAN 404 Eighth Semester Japanese, E ASIAN/E P D 601 Japanese for Business and Industry.

## CONCENTRATION IN SOUTHEAST ASIAN STUDIES <sup>1</sup>

Code	Title	Credits
<b>Fourth Unit of a Southeast Asian Language -Choose One:</b>		
LCA LANG 401 & LCA LANG 402	Third Semester Asian Language and Fourth Semester Asian Language	
LCA LANG 403 & LCA LANG 404	Third Semester Burmese and Fourth Semester Burmese	
LCA LANG 405 & LCA LANG 406	Third Semester Filipino and Fourth Semester Filipino	

LCA LANG 407 & LCA LANG 408	Third Semester Hmong and Fourth Semester Hmong
LCA LANG 409 & LCA LANG 410	Third Semester Indonesian and Fourth Semester Indonesian
LCA LANG 411 & LCA LANG 412	Third Semester Javanese and Fourth Semester Javanese
LCA LANG 413 & LCA LANG 414	Third Semester Khmer and Fourth Semester Khmer
LCA LANG 415 & LCA LANG 416	Third Semester Lao and Fourth Semester Lao
LCA LANG 417 & LCA LANG 418	Third Semester Thai and Fourth Semester Thai
LCA LANG 419 & LCA LANG 420	Third Semester Vietnamese and Fourth Semester Vietnamese
<b>Humanities: 8 Credits must be concentrated in a single</b>	
<b>SUBJECT</b>	
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging
COM ARTS 470	Contemporary Political Discourse
DANCE/ FOLKLORE/ THEATRE 421	Javanese Performance Repertory
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
HISTORY/ ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War
HISTORY 319	The Vietnam Wars
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History
HISTORY/ LCA 457	History of Southeast Asia to 1800
HISTORY/ LCA 458	History of Southeast Asia Since 1800
HISTORY 600	Advanced Seminar in History (Southeast Asia)
LCA/GEOG/ HISTORY/ POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
LCA 300	Topics in Languages and Cultures of Asia (Southeast Asia)
LCA/E ASIAN/ HISTORY/ RELIG ST 308	Introduction to Buddhism
LCA/ ART HIST 379	Cities of Asia
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History

8

LCA/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)
LCA/ HISTORY 457	History of Southeast Asia to 1800
LCA/ HISTORY 458	History of Southeast Asia Since 1800
LCA/HISTORY/ RELIG ST 547	Religion, Colonialism & Modernity in Southeast Asia
LCA LANG 503	Fifth Semester Burmese
LCA LANG 504	Sixth Semester Burmese
LCA LANG 505	Fifth Semester Filipino
LCA LANG 506	Sixth Semester Filipino
LCA LANG 507	Fifth Semester Hmong
LCA LANG 508	Sixth Semester Hmong
LCA LANG 509	Fifth Semester Indonesian
LCA LANG 510	Sixth Semester Indonesian
LCA LANG 513	Fifth Semester Khmer
LCA LANG 514	Sixth Semester Khmer
LCA LANG 515	Fifth Semester Lao
LCA LANG 516	Sixth Semester Lao
LCA LANG 519	Fifth Semester Vietnamese
LCA LANG 520	Sixth Semester Vietnamese
RELIG ST/ AFRICAN/ LCA 370	Islam: Religion and Culture
RELIG ST/ LCA 620	Proseminar: Studies in Religions of Asia
<b>Social Science: 8 Credits must be concentrated in a single</b>	
<b>SUBJECT</b>	
A A E 375	Special Topics (Southeast Asia)
A A E/ECON 473	Economic Growth and Development in Southeast Asia
ANTHRO 310	Topics in Archaeology (Archaeology of East and Southeast Asia)
ANTHRO 330	Topics in Ethnology (Peoples & Cultures of Mainland Southeast Asia; Art in Island Southeast Asia)
ASIAN AM/ HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War
COM ARTS 610	Special Topics in Rhetoric and Public Address
ECON/A A E 473	Economic Growth and Development in Southeast Asia
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 358	Human Geography of Southeast Asia
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
GEOG 675	Special Topics in Geography
INTL ST/ A A E 373	Globalization, Poverty and Development
POLI SCI 322	Politics of Southeast Asia

8

SOC/GEOG/ Introduction to Southeast Asia:  
 HISTORY/LCA/ Vietnam to the Philippines  
 POLI SCI 244

- <sup>1</sup> Courses counted toward humanities may not also count towards social science, and vice versa. However, humanities and social science courses *may* count toward the concentration requirement if taken in a single SUBJECT.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all E A STDS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in E A STDS, taken on the UW–Madison campus

- <sup>2</sup> Courses in the major numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Asian Studies Major in consultation with the Asian Studies undergraduate advisor.

### HONORS IN ASIAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Asian Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all E A STDS courses, and all courses accepted in the major
- Complete 3 credits E A STDS at the intermediate or advanced level with a grade of B or better
- Complete a two-semester Senior Honors Thesis in E A STDS 681 Senior Honors Thesis and E A STDS 682 Senior Honors Thesis, for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Students interested in Southeast Asia are encouraged to consult with the undergraduate advisor (mmcullin@wisc.edu) at any time from the freshman year onward to discuss the program.

### CAREER INFORMATION

Students are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### CONCENTRATION IN EAST ASIAN STUDIES

#### CHINA CORE FACULTY:

Professors Curtin, Dong, Eichenseher, Friedman, Irish, Manion, Murray, Nienhauser, Pan

Associate Professors Huntington, Huang, Merli, Sheehan, Zhang, Zhou

Assistant Professor Meulenbeld, Yang

#### JAPAN CORE FACULTY:

Professors Davis, McGloin, Mori, Ohnuki-Tierney, Phillips, Young

Associate Professors D'Etcheverry, Furumoto, Geyer, Kern, Leheny, Mori, Raymo, Thal

Assistant Professor Ridgeley

#### KOREA CORE FACULTY:

Professor Sutton; Assistant Professors Kim, Ohnesorge

#### UNDERGRADUATE ADVISOR:

Michael Cullinane

## CONCENTRATION IN SOUTHEAST ASIAN STUDIES

Professors Bowie, Cowell, Coxhead, Gade, Gunther, Hansen (director), Macken, A. McCoy, Olds, Rafferty, Sidel, Winichakul, Zhou

Associate Professor Nobles

Assistant Professors Baird, Choy, Ho, Kim

Faculty Associates Barnard, Cullinane, M McCoy

Librarian Ashmun

### UNDERGRADUATE ADVISOR:

Michael Cullinane

## ASIAN STUDIES, B.S.

Asian Studies is divided into two concentrations:

- East Asian Studies
- Southeast Asian Studies

## CONCENTRATION IN EAST ASIAN STUDIES

The Asian studies major with an East Asian studies concentration encompasses China, Japan, and Korea—Pacific Rim nations characterized by rich cultural heritages, critical geopolitical positions and rapidly expanding economies. East Asia plays a central role in world politics and the global economy, and the importance of this region will increase in the 21st century.

This concentration is for undergraduates who are interested in a wide range of careers (business, public service, law, teaching, research, etc.) and who seek a focused yet multidisciplinary education with solid grounding in East Asian language and civilization. Students interested in the major should begin language study as early as possible.

## CONCENTRATION IN SOUTHEAST ASIAN STUDIES

The Asian studies major with a Southeast Asian concentration is an undergraduate major in the College of Letters & Science, providing a comprehensive foundation in Southeast Asian language and area studies. It includes Burma (Myanmar), Brunei, Cambodia (Kampuchea), East Timor, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and Vietnam. Students are required to take a minimum of four semesters of a Southeast Asian language, and complete a minimum of thirty credits of Southeast Asian area studies coursework. The area studies courses must be taken in at least two academic disciplines, including courses in Southeast Asian humanities and social sciences. Students may opt to prepare a 6-credit senior thesis.

## HOW TO GET IN

## CONCENTRATION IN SOUTHEAST ASIAN STUDIES

### DECLARING THE MAJOR

The major should be declared no later than the beginning of the junior year. (**All L&S students must declare a major by the time they have earned 86 degree credits.**) Students with no previous language training or proficiency should consider beginning language study during their sophomore year, since language course sequences begin only once per year during the fall semester. Students interested in Southeast Asia are encouraged to consult with the undergraduate advisor (mmcullin@wisc.edu) at any time from the freshman year onward to discuss the program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

The Asian studies majors requires that students concentrate in one of two options: **East Asian Studies** or **Southeast Asian Studies**. Students **must declare** one (and only one) of these concentrations. Both concentrations require 30 credits.

### CONCENTRATION IN EAST ASIAN STUDIES <sup>1</sup>

Code	Title	Credits
<b>Fourth Unit of Language—choose one:</b>		8-12
E ASIAN 201 & E ASIAN 202	Third Semester Chinese and Fourth Semester Chinese	
E ASIAN 203 & E ASIAN 204	Third Semester Japanese and Fourth Semester Japanese	
E ASIAN 345 & E ASIAN 346	Third Semester Korean and Fourth Semester Korean	
LCA LANG 469 & LCA LANG 470	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	
<b>Humanities: 8 credits must be concentrated in a single SUBJECT</b>		8
ART HIST 203	Survey of Asian Art	

ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century
ART HIST 371	Chinese Painting
ART HIST 372	Arts of Japan
ART HIST 411	Topics in Asian Art
ART HIST 475	Japanese Ceramics and Allied Arts
ART HIST/RELIG ST 478	Art and Religious Practice in Medieval Japan
ART HIST 575	Proseminar in Japanese Art
ART HIST 576	Proseminar in Chinese Art
E A STDS/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations
E A STDS/E ASIAN 300	Humanities Topics in East Asian Studies
E A STDS 691	Senior Thesis
E A STDS 692	Senior Thesis
E ASIAN/LCA/RELIG ST 235	Genres of Asian Religious Writing
E ASIAN 253	Introduction to Japanese Culture and Civilization
E ASIAN/KINES 277	Kendo: Integration of Martial Arts and Liberal Arts
E ASIAN/E A STDS 300	Humanities Topics in East Asian Studies (Korean Culture)
E ASIAN/HISTORY/LCA/RELIG ST 308	Introduction to Buddhism
E ASIAN/RELIG ST 350	Introduction to Taoism
E ASIAN 351	Survey of Chinese Literature
E ASIAN 352	Survey of Chinese Literature
E ASIAN 353	Survey of Japanese Literature
E ASIAN 354	Survey of Japanese Literature
E ASIAN 356	Chinese Painting
E ASIAN 358	Language in Japanese Society
E ASIAN/RELIG ST 363	Introduction to Confucianism
E ASIAN 367	Japanese Poetic Tradition
E ASIAN 371	Topics in Chinese Literature
E ASIAN 376	Manga.
E ASIAN 378	Anime
E ASIAN 433	Topics in East Asian Visual Cultures
E ASIAN 520	Popular Culture and Film in Twentieth-Century China
E ASIAN 563	Readings in Modern Japanese Literature
E ASIAN 564	Readings in Modern Japanese Literature
E ASIAN 573	Readings in Classical Japanese Literature
E ASIAN 574	Readings in Classical Japanese Literature
E ASIAN 631	History of the Chinese Language
E ASIAN 632	History of the Chinese Language

E ASIAN 651	History of Chinese Literature
E ASIAN 652	History of Chinese Literature
E ASIAN 672	Literary Studies in Chinese Fiction
HISTORY/ E A STDS 103	Introduction to East Asian History: China
HISTORY/ E A STDS 104	Introduction to East Asian History: Japan
HISTORY 225	Explorations in Third World History (H) (China, Japan, Korea)
HISTORY 335	Korean History, 1945 to present
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919
HISTORY/ E A STDS 341	History of Modern China, 1800-1949
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present
HISTORY/ E A STDS 454	Samurai: History and Image
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
HISTORY 500	Reading Seminar in History
INTL ST 310	International Learning Community Seminar (China, East Asia, Japan, Korea, Tibet)
LITTRANS 261	Survey of Chinese Literature in Translation
LITTRANS 262	Survey of Chinese Literature in Translation
LITTRANS 263	Survey of Japanese Literature in Translation
LITTRANS 264	Survey of Japanese Literature in Translation
LITTRANS 368	Modern Japanese Fiction
LITTRANS 372	Classical Japanese Prose in Translation
LITTRANS 373	Topics in Japanese Literature
LITTRANS 374	Topics in Korean Literature
THEATRE/ FOLKLORE 326	Introduction to Asian Performance
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 526	The Theatres of China and Japan
<b>Social Science: 8 credits must be concentrated in a single</b>	
<b>SUBJECT</b>	
A A E 319	The International Agricultural Economy
A A E/ECON 474	Economic Problems of Developing Areas
ANTHRO 310	Topics in Archaeology (East Asia, Southeast Asia)
ANTHRO 330	Topics in Ethnology
ANTHRO 357	Introduction to the Anthropology of Japan

E A STDS 301	Social Studies Topics in East Asian Studies
ECON/A A E 474	Economic Problems of Developing Areas
E P D/ E ASIAN 330	Basic Technical Japanese I
E P D/ E ASIAN 332	Basic Technical Japanese II
E P D/ E ASIAN 374	Intermediate Technical Japanese I
E P D/ E ASIAN 375	Intermediate Technical Japanese II
GEOG 101	Introduction to Human Geography
GEOG 358	Human Geography of Southeast Asia
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
HISTORY/ LCA 457	History of Southeast Asia to 1800
HISTORY/ LCA 458	History of Southeast Asia Since 1800
JOURN 621	Mass Communication in Developing Nations
POLI SCI 201	Special Topics in Political Science (East Asia, Southeast Asia)
POLI SCI/ E A STDS/ HISTORY 255	Introduction to East Asian Civilizations
POLI SCI 346	China in World Politics
POLI SCI 640	Politics of Japan
POLI SCI 654	Politics of Revolution
SOC/ C&E SOC 222	Food, Culture, and Society

<sup>1</sup> Courses counted toward humanities may not also count toward social science, and vice versa. However, humanities and social science courses *may* count toward the concentration requirement if taken in a single SUBJECT.

<sup>2</sup> Students can also fulfill the East Asian language requirement with the following courses: **Chinese**—E ASIAN 301 Fifth Semester Chinese, E ASIAN 302 Sixth Semester Chinese, E ASIAN 321 First Year Classical Chinese, E ASIAN 322 First Year Classical Chinese, E ASIAN 333 Chinese Conversation, E ASIAN 341 Classical Chinese for Non-Majors, E ASIAN 342 Classical Chinese for Non-Majors, E ASIAN 401 Seventh Semester Chinese, E ASIAN 402 Eighth Semester Chinese, E ASIAN 379 Business Chinese, E ASIAN 631 History of the Chinese Language; **Japanese**—E ASIAN 303 Fifth Semester Japanese, E ASIAN 304 Sixth Semester Japanese, E ASIAN 323 First Year Classical Japanese, E ASIAN/E P D 330 Basic Technical Japanese I, E ASIAN/E P D 332 Basic Technical Japanese II, E ASIAN 335 Intermediate Japanese Conversation, E ASIAN/E P D 374 Intermediate Technical Japanese I, E ASIAN 403 Seventh Semester Japanese, E ASIAN 404 Eighth Semester Japanese, E ASIAN/E P D 601 Japanese for Business and Industry.



**CONCENTRATION IN SOUTHEAST ASIAN STUDIES<sup>1</sup>**

Code	Title	Credits
<b>Fourth Unit of a Southeast Asian Language -Choose One:</b>		
LCA LANG 401 & LCA LANG 402	Third Semester Asian Language and Fourth Semester Asian Language	
LCA LANG 403 & LCA LANG 404	Third Semester Burmese and Fourth Semester Burmese	
LCA LANG 405 & LCA LANG 406	Third Semester Filipino and Fourth Semester Filipino	
LCA LANG 407 & LCA LANG 408	Third Semester Hmong and Fourth Semester Hmong	
LCA LANG 409 & LCA LANG 410	Third Semester Indonesian and Fourth Semester Indonesian	
LCA LANG 411 & LCA LANG 412	Third Semester Javanese and Fourth Semester Javanese	
LCA LANG 413 & LCA LANG 414	Third Semester Khmer and Fourth Semester Khmer	
LCA LANG 415 & LCA LANG 416	Third Semester Lao and Fourth Semester Lao	
LCA LANG 417 & LCA LANG 418	Third Semester Thai and Fourth Semester Thai	
LCA LANG 419 & LCA LANG 420	Third Semester Vietnamese and Fourth Semester Vietnamese	
<b>Humanities: 8 Credits must be concentrated in a single SUBJECT</b>		<b>8</b>
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	
COM ARTS 470	Contemporary Political Discourse	
DANCE/ FOLKLORE/ THEATRE 421	Javanese Performance Repertory	
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	
HISTORY/GEORG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	
HISTORY/ ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	
HISTORY 319	The Vietnam Wars	
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	
HISTORY/ LCA 457	History of Southeast Asia to 1800	
HISTORY/ LCA 458	History of Southeast Asia Since 1800	
HISTORY 600	Advanced Seminar in History (Southeast Asia)	

LCA/GEORG/ HISTORY/ POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	
LCA 300	Topics in Languages and Cultures of Asia (Southeast Asia)	
LCA/E ASIAN/ HISTORY/ RELIG ST 308	Introduction to Buddhism	
LCA/ ART HIST 379	Cities of Asia	
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	
LCA/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	
LCA/ HISTORY 457	History of Southeast Asia to 1800	
LCA/ HISTORY 458	History of Southeast Asia Since 1800	
LCA/HISTORY/ RELIG ST 547	Religion, Colonialism & Modernity in Southeast Asia	
LCA LANG 503	Fifth Semester Burmese	
LCA LANG 504	Sixth Semester Burmese	
LCA LANG 505	Fifth Semester Filipino	
LCA LANG 506	Sixth Semester Filipino	
LCA LANG 507	Fifth Semester Hmong	
LCA LANG 508	Sixth Semester Hmong	
LCA LANG 509	Fifth Semester Indonesian	
LCA LANG 510	Sixth Semester Indonesian	
LCA LANG 513	Fifth Semester Khmer	
LCA LANG 514	Sixth Semester Khmer	
LCA LANG 515	Fifth Semester Lao	
LCA LANG 516	Sixth Semester Lao	
LCA LANG 519	Fifth Semester Vietnamese	
LCA LANG 520	Sixth Semester Vietnamese	
RELIG ST/ AFRICAN/ LCA 370	Islam: Religion and Culture	
RELIG ST/ LCA 620	Proseminar: Studies in Religions of Asia	
<b>Social Science: 8 Credits must be concentrated in a single SUBJECT</b>		<b>8</b>
A A E 375	Special Topics (Southeast Asia)	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
ANTHRO 310	Topics in Archaeology (Archaeology of East and Southeast Asia)	
ANTHRO 330	Topics in Ethnology (Peoples & Cultures of Mainland Southeast Asia; Art in Island Southeast Asia)	
ASIAN AM/ HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	
COM ARTS 610	Special Topics in Rhetoric and Public Address	

ECON/A A E 473	Economic Growth and Development in Southeast Asia
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 358	Human Geography of Southeast Asia
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
GEOG 675	Special Topics in Geography
INTL ST/ A A E 373	Globalization, Poverty and Development
POLI SCI 322	Politics of Southeast Asia
SOC/GEOG/ HISTORY/LCA/ POLI SCI 244	Introduction to Southeast Asia: Vietnam to the Philippines

<sup>1</sup> Courses counted toward humanities may not also count towards social science, and vice versa. However, humanities and social science courses *may* count toward the concentration requirement if taken in a single SUBJECT.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all E A STDS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in E A STDS, taken on the UW–Madison campus

<sup>2</sup> Courses in the major numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Asian Studies Major in consultation with the Asian Studies undergraduate advisor.

### HONORS IN ASIAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Asian Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all E A STDS courses, and all courses accepted in the major
- Complete 3 credits E A STDS at the intermediate or advanced level with a grade of B or better
- Complete a two-semester Senior Honors Thesis in E A STDS 681 Senior Honors Thesis and E A STDS 682 Senior Honors Thesis, for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Students interested in Southeast Asia are encouraged to consult with the undergraduate advisor ([mmcullin@wisc.edu](mailto:mmcullin@wisc.edu)) at any time from the freshman year onward to discuss the program.

### CAREER INFORMATION

Students are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### CONCENTRATION IN EAST ASIAN STUDIES

#### CHINA CORE FACULTY:

Professors Curtin, Dong, Eichenseher, Friedman, Irish, Manion, Murray, Nienhauser, Pan

Associate Professors Huntington, Huang, Merli, Sheehan, Zhang, Zhou

Assistant Professor Meulenbeld, Yang

**JAPAN CORE FACULTY:**

Professors Davis, McGloin, Mori, Ohnuki-Tierney, Phillips, Young

Associate Professors D'Etcheverry, Furumoto, Geyer, Kern, Leheny, Mori, Raymo, Thal

Assistant Professor Ridgely

**KOREA CORE FACULTY:**

Professor Sutton; Assistant Professors Kim, Ohnesorge

**UNDERGRADUATE ADVISOR:**

Michael Cullinane

**CONCENTRATION IN SOUTHEAST ASIAN STUDIES**

Professors Bowie, Cowell, Coxhead, Gade, Gunther, Hansen (director), Macken, A. McCoy, Olds, Rafferty, Sidel, Winichakul, Zhou

Associate Professor Nobles

Assistant Professors Baird, Choy, Ho, Kim

Faculty Associates Barnard, Cullinane, M McCoy

Librarian Ashmun

**UNDERGRADUATE ADVISOR:**

Michael Cullinane

**EAST ASIAN STUDIES, CERTIFICATE**

Students interested in more specialized study of the languages and literature of East Asia, South Asia, or Southeast Asia should see the Department of Asian Languages and Cultures, the Center for South Asia, or the Center for Southeast Asian Studies; those interested in study of languages and cultures of Central Asia should see the Center for Russian, East European, and Central Asian Studies. All questions pertaining to East Asian studies at UW–Madison should be addressed to the Center for East Asian Studies (see box at right).

**CERTIFICATE IN EAST ASIAN STUDIES**

The undergraduate certificate in East Asian studies is available to students working toward a baccalaureate degree in any of the University of Wisconsin–Madison schools and colleges, and to Special students. This certificate meets the needs of students choosing to focus on the East Asian region (China, Korea, Japan, and Tibet) within their primary major, but not wishing to commit to the rigorous language study required by the relevant majors in the Department of Asian Languages and Cultures. Students select coursework reflecting their interests from myriad classes offered through many university departments, and can work toward a variety of undergraduate majors. Upon earning the certificate, this emphasis is noted on the student's transcript. The certificate is of value to students wishing to demonstrate their knowledge of the East Asian region either to potential employers or to graduate schools.

**HOW TO GET IN**

Students interested in declaring the East Asian Studies certificate contact the advisor for the program (Mike Cullinane, [mmcullin@wisc.edu](mailto:mmcullin@wisc.edu)). More information about advising can be found at advising program (<http://eastasia.wisc.edu/en/Students/advising.html>).

**REQUIREMENTS****REQUIREMENTS FOR THE CERTIFICATE**

21 credits representing at least two SUBJECTs, from: <sup>1,2</sup>

Code	Title	Credits
E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations (unless specific exception (per approval of the center director) is given)	3-4
<b>9 credits in upper-division courses:</b>		<b>9</b>
A A E 319	The International Agricultural Economy	
A A E/ECON 474	Economic Problems of Developing Areas	
ANTHRO 330	Topics in Ethnology	
ANTHRO 357	Introduction to the Anthropology of Japan	
ART HIST 203	Survey of Asian Art	
ART HIST 371	Chinese Painting	
ART HIST 372	Arts of Japan	
ART HIST 411	Topics in Asian Art	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies	
E A STDS 301	Social Studies Topics in East Asian Studies	
E A STDS 691	Senior Thesis	
E A STDS 692	Senior Thesis	
E ASIAN 101	First Semester Chinese <sup>2</sup>	
E ASIAN 102	Second Semester Chinese <sup>2</sup>	
E ASIAN 103	First Semester Japanese <sup>2</sup>	
E ASIAN 104	Second Semester Japanese <sup>2</sup>	
E ASIAN 105	Elementary Korean <sup>2</sup>	
E ASIAN 106	Elementary Korean <sup>2</sup>	
E ASIAN 121	Elementary Chinese <sup>2</sup>	
E ASIAN 122	Elementary Chinese <sup>2</sup>	
E ASIAN 123	Elementary Japanese <sup>2</sup>	
E ASIAN 124	Elementary Japanese <sup>2</sup>	
E ASIAN 201	Third Semester Chinese <sup>2</sup>	
E ASIAN 202	Fourth Semester Chinese <sup>2</sup>	
E ASIAN 203	Third Semester Japanese <sup>2</sup>	
E ASIAN 204	Fourth Semester Japanese <sup>2</sup>	

E ASIAN 253	Introduction to Japanese Culture and Civilization	E ASIAN 501	Fifth-year Chinese <sup>2</sup>
E ASIAN/ KINES 277	Kendo: Integration of Martial Arts and Liberal Arts	E ASIAN 520	Popular Culture and Film in Twentieth-Century China
E ASIAN 301	Fifth Semester Chinese <sup>2</sup>	E ASIAN 563	Readings in Modern Japanese Literature
E ASIAN 302	Sixth Semester Chinese <sup>2</sup>	E ASIAN 564	Readings in Modern Japanese Literature
E ASIAN 303	Fifth Semester Japanese <sup>2</sup>	E ASIAN 573	Readings in Classical Japanese Literature
E ASIAN 304	Sixth Semester Japanese <sup>2</sup>	E ASIAN 574	Readings in Classical Japanese Literature
E ASIAN/ HISTORY/LCA/ RELIG ST 308	Introduction to Buddhism	E ASIAN 631	History of the Chinese Language
E ASIAN 321	First Year Classical Chinese <sup>2</sup>	E ASIAN 632	History of the Chinese Language
E ASIAN 322	First Year Classical Chinese <sup>2</sup>	E ASIAN 651	History of Chinese Literature
E ASIAN 323	First Year Classical Japanese <sup>2</sup>	E ASIAN 652	History of Chinese Literature
E ASIAN/ E P D 330	Basic Technical Japanese I <sup>2</sup>	E ASIAN 672	Literary Studies in Chinese Fiction
E ASIAN/ E P D 332	Basic Technical Japanese II <sup>2</sup>	ECON 390	Contemporary Economic Issues
E ASIAN 333	Chinese Conversation <sup>2</sup>	ECON/A A E 474	Economic Problems of Developing Areas
E ASIAN 335	Intermediate Japanese Conversation <sup>2</sup>	GEOG 358	Human Geography of Southeast Asia
E ASIAN 341	Classical Chinese for Non-Majors <sup>2</sup>	HISTORY/ E A STDS 103	Introduction to East Asian History: China
E ASIAN 342	Classical Chinese for Non-Majors <sup>2</sup>	HISTORY/ E A STDS 104	Introduction to East Asian History: Japan
E ASIAN 345	Third Semester Korean <sup>2</sup>	HISTORY 108	Introduction to East Asian History - Korea
E ASIAN 346	Fourth Semester Korean <sup>2</sup>	HISTORY 200	Historical Studies
E ASIAN/ RELIG ST 350	Introduction to Taoism <sup>2</sup>	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
E ASIAN 351	Survey of Chinese Literature	HISTORY/ E A STDS 341	History of Modern China, 1800-1949
E ASIAN 352	Survey of Chinese Literature	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present
E ASIAN 353	Survey of Japanese Literature	HISTORY/ E A STDS 454	Samurai: History and Image
E ASIAN 354	Survey of Japanese Literature	HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
E ASIAN 356	Chinese Painting	JOURN 621	Mass Communication in Developing Nations
E ASIAN/ RELIG ST 363	Introduction to Confucianism	LCA LANG 369	First Semester Modern Tibetan
E ASIAN 367	Japanese Poetic Tradition	LCA LANG 677	Advanced Readings in Tibetan
E ASIAN 371	Topics in Chinese Literature	LCA/ RELIG ST 421	A Survey of Tibetan Buddhism
E ASIAN/ E P D 374	Intermediate Technical Japanese I <sup>2</sup>	LCA/ ART HIST 428	Visual Cultures of South Asia
E ASIAN/ E P D 375	Intermediate Technical Japanese II <sup>2</sup>	LITTRANS 261	Survey of Chinese Literature in Translation
E ASIAN 376	Manga.	LITTRANS 262	Survey of Chinese Literature in Translation
E ASIAN 378	Anime	LITTRANS 263	Survey of Japanese Literature in Translation
E ASIAN 401	Seventh Semester Chinese <sup>2</sup>	LITTRANS 264	Survey of Japanese Literature in Translation
E ASIAN 402	Eighth Semester Chinese <sup>2</sup>	LITTRANS 368	Modern Japanese Fiction
E ASIAN 403	Seventh Semester Japanese <sup>2</sup>		
E ASIAN 404	Eighth Semester Japanese <sup>2</sup>		
E ASIAN 406	Eighth Semester Korean <sup>2</sup>		
E ASIAN 431	Introduction to Chinese Linguistics <sup>2</sup>		
E ASIAN 432	Introduction to Chinese Linguistics <sup>2</sup>		
E ASIAN 433	Topics in East Asian Visual Cultures		
E ASIAN 434	Introduction to Japanese Linguistics		

LITTRANS 372	Classical Japanese Prose in Translation
LITTRANS 373	Topics in Japanese Literature
LITTRANS 374	Topics in Korean Literature
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World
MUSIC/ FOLKLORE 402	Musical Cultures of the World
POLI SCI 346	China in World Politics
POLI SCI 640	Politics of Japan
POLI SCI 654	Politics of Revolution
SOC 225	Contemporary Chinese Society
THEATRE/ FOLKLORE 326	Introduction to Asian Performance
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 526	The Theatres of China and Japan

**Electives - take any course above to attain 21 credits in the certificate** 9

Total Credits 21-22

<sup>1</sup> A maximum 3 credits in Directed Study may apply.

<sup>2</sup> A maximum 12 credits of East Asian language may apply.

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

11 credits in the certificate, in residence

## ADVISING AND CAREERS

Study of an East Asian language is strongly encouraged, but not required. Courses in elementary Chinese, Japanese, Korean, and Tibetan are available, providing an introduction to the fundamentals of the languages, without necessarily requiring additional advanced language coursework.

Students should meet with the advisor for the certificate (Mike Cullinane, mmcullin@wisc.edu) in 207 Ingraham Hall for more assistance.

## EUROPEAN STUDIES, CERTIFICATE

The European Studies Program, in cooperation with the Center for European Studies, the Jean Monnet European Union Center of Excellence (JMEUCE), and the DAAD Center for German and European Studies (CGES), promotes knowledge and understanding of Europe both on and off campus. Established in 1968, the program provides integrated interdisciplinary studies on contemporary Europe for both undergraduate and graduate students. The program brings together scholars on campus interested in different aspects of Europe to discuss topics of mutual interest. More than thirty departments offer courses on Europe (excluding language courses), providing the largest number of courses on any region of the world other than the United States.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the Center for European Studies

(european@international.wisc.edu) or the undergraduate advisor, Csanád Siklós, 262-5006; siklos@wisc.edu.

## REQUIREMENTS

### LANGUAGE REQUIREMENT

Students may satisfy the European language requirement by taking college courses, or through high school units. There are two options to complete the requirement—students can either complete:

1. Four units of a single European language  
**or**
2. Three units of one European language and two units of a second European language.

Code	Title	Credits
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#### Fourth unit courses:

Courses above fourth semester may be used to satisfy this requirement.

FRENCH 204	Fourth Semester French	
GERMAN 204	Fourth Semester German	
GERMAN 214	Fourth Semester Dutch	
GREEK 306	Intermediate Greek	
ITALIAN 204	Fourth Semester Italian	
PORTUG 202	Fourth Semester Portuguese	
SCAND ST 202	Second Year Norwegian	
SCAND ST 212	Second Year Swedish	
SCAND ST 222	Second Year Danish	
SCAND ST 302	Intensive Finnish II	
SPANISH 204	Fourth Semester Spanish	

#### Third unit courses:

FRENCH 203	Third Semester French	
GERMAN 203	Third Semester German	
GERMAN 213	Third Semester Dutch	
GREEK 305	Intermediate Greek	
ITALIAN 203	Third Semester Italian	
PORTUG 201	Third Semester Portuguese	
SCAND ST 201	Second Year Norwegian	
SCAND ST 211	Second Year Swedish	
SCAND ST 221	Second Year Danish	
SCAND ST 301	Intensive Finnish I	
SPANISH 203	Third Semester Spanish	

#### Second unit courses:

FRENCH 102	Second Semester French	
GERMAN 102	Second Semester German	
GERMAN 112	Second Semester Dutch	
GREEK 104	Second Semester Greek	
GREEK 304	Second Semester Greek	
ITALIAN 102	Second Semester Italian	
PORTUG 102	Second Semester Portuguese	
SCAND ST 102	Second Semester Norwegian	
SCAND ST 112	Second Semester Swedish	
SCAND ST 122	Second Semester Danish	
SCAND ST 132	Second Semester Finnish	

SPANISH 102 Second Semester Spanish

**EUROPEAN AREA STUDIES REQUIREMENT**

Seven courses and 21 credits, with courses being taken in at least two subjects, and distributed in one of two ways:

1. **Option 1:** Seven courses on **Europe as a whole:** focusing on topics such as the European Union, European history, or European literature.
2. **Option 2:** Seven courses distributed across **three or more regional/national areas.** (Students may use Europe as a whole courses in partial fulfillment of this option combined with courses on two other regional/national areas).

**OPTION 1: EUROPE AS A WHOLE**

Code	Title	Credits
<b>SEVEN courses from at least two SUBJECTS:</b>		21
ANTHRO 309	Prehistoric Europe	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel	
ART HIST 334	Prints and Master Printmakers of the Western World	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 355	History of Photography	
ART HIST 357	European Architecture: The Nineteenth Century	
ART HIST 358	European Architecture: The Modern Movements	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	
COM ARTS 352	Film History to 1960	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 370	Great Speakers and Speeches (European Art Cinema)	
COM ARTS 613	Special Topics in Film	
COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Tolkien & Medieval)	
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Law & Literature)	

COMP LIT 370	Comparative Problems in Periods and Movements
COMP LIT 475	Poetics and Literary Theory (Existentialism)
COMP LIT 475	Poetics and Literary Theory (Literature & the World)
DS 355	History of Fashion, 1400-Present
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century
DS 655/ FOLKLORE DS 655	Comparative World Dress
ECON 364	Survey of International Economics
ECON 464	International Trade and Finance
ECON 467	International Industrial Organizations
ED POL/ HISTORY 107	The History of the University in the West
ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence
ED POL 675	Introduction to Comparative and International Education
GEN&WS/ ENGL 250	Women in Literature
GEN&WS/ SOC 477	Feminism and Sociological Theory
GEOG/ URB R PL 305	Introduction to the City
GEOG 318	Introduction to Geopolitics
GEOG 340	World Regions in Global Context
GEOG 349	Europe
GEOG/ URB R PL 506	Historical Geography of European Urbanization
GEOG 510	Economic Geography
HISTORY/ ED POL 107	The History of the University in the West
HISTORY 115	Medieval Europe 410-1500
HISTORY 119	The Making of Modern Europe 1500-1815
HISTORY 120	Europe and the Modern World 1815 to the Present
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500
HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course
HISTORY/ JEWISH 220	Introduction to Modern Jewish History
HISTORY 223	Explorations in European History (H)
HISTORY 224	Explorations in European History (S)
HISTORY 271	History Study Abroad: European History
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam

HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	HISTORY 500	Reading Seminar in History (the Enlightenment)
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	HISTORY 525	The World and the West from 1492
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	HISTORY/ JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939
HISTORY/ AFROAMER 321	Afro-American History Since 1900	HISTORY/ CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization
HISTORY/ HIST SCI 324	Science in the Enlightenment	HISTORY 600	Advanced Seminar in History (See advisor for approvable Europe-related sections)
HISTORY/ ENVIR ST 328	Environmental History of Europe	HIST SCI 201	The Origins of Scientific Thought
HISTORY/ RELIG ST 334	The Reformation	HIST SCI 202	The Making of Modern Science
HISTORY/ GEN&WS 346	Trans/Gender in Historical Perspective	HIST SCI 203	Science in the Twentieth Century: A Historical Overview
HISTORY 352	Eighteenth Century Europe	HIST SCI 222	Technology and Social Change in History
HISTORY 357	The Second World War	HIST SCI/ C&E SOC 230	Agriculture and Social Change in Western History
HISTORY 359	History of Europe Since 1945	HIST SCI/ MED HIST 284	Physician in History (Honors)
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science
HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	HIST SCI/ HISTORY 323	The Scientific Revolution: From Copernicus to Newton
HISTORY/ GEN&WS 392	Women in History	HIST SCI/ HISTORY 324	Science in the Enlightenment
HISTORY 403	Immigration and Assimilation in American History	HIST SCI 325	History of Physics: The Classical Period
HISTORY/ LEGAL ST 426	The History of Punishment	HIST SCI 326	History of Physics: The Modern Period
HISTORY 434	American Foreign Relations, 1901 to the Present	HIST SCI/ MED HIST/ RELIG ST 331	Science, Medicine and Religion
HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	HIST SCI/ MED HIST 333	History of Modern Biology
HISTORY 467	Economic and Social History of Europe 1500-1750	HIST SCI 337	History of Technology
HISTORY/ ENVIR ST/ GEOG 469	The Making of the American Landscape	HIST SCI 339	Technology and Its Critics Since World War II
HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	HIST SCI 343	The Darwinian Revolution
HISTORY 474	European Social History, 1830-1914	HIST SCI/ ENVIR ST 353	History of Ecology
HISTORY 475	European Social History, 1914-Present	HIST SCI/ S&A PHM 401	History of Pharmacy
HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	HIST SCI/ HISTORY/ MED HIST 507	Health, Disease and Healing I
HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	HIST SCI 512	Galileo Galilei: Life, Writings, and Interpretations
HISTORY 514	European Cultural History Since 1870	HIST SCI/ HISTORY/ MED HIST 543	Doctors and Delusions: Madness and Medicine in the Modern Era
HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HISTORY 500	Reading Seminar in History (Migrants & Refugees)		

HIST SCI 622	Studies in Ancient and Medieval Science	MUSIC 416	Survey of Music in the Twentieth Century
HIST SCI 623	Studies in Early Modern Science	MUSIC 513	Survey of Opera
HIST SCI 637	Studies in History of Technology	PHILOS 432	History of Modern Philosophy
ILS 201	Western Culture: Science, Technology, Philosophy I	PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century
ILS 202	Western Culture: Science, Technology, Philosophy II	PHILOS 526	Philosophy and Literature
ILS 203	Western Culture: Literature and the Arts I	PHILOS 530	Freedom Fate and Choice
ILS 204	Western Culture: Literature and the Arts II	PHILOS 549	Great Moral Philosophers
ILS 205	Western Culture: Political, Economic, and Social Thought I	PHILOS 555	Political Philosophy
ILS 206	Western Culture: Political, Economic, and Social Thought II	POLI SCI 351	Politics of the World Economy 3-4
ILS 208	History of Western Culture II	POLI SCI 356	Principles of International Law 3-4
ILS/RELIG ST 234	Genres of Western Religious Writing	POLI SCI/ INTL ST 439	The Comparative Study of Genocide 3-4
INTL BUS 200	International Business	POLI SCI 340	The European Union: Politics and Political Economy 3-4
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	POLI SCI 350	International Political Economy 3-4
INTL BUS/ M H R 403	Global Issues in Management	POLI SCI 265	Development of Ancient and Medieval Western Political Thought 3-4
INTL BUS/ MARKETNG 420	Global Marketing Strategy	POLI SCI 266	The Development of Modern Western Political Thought 3-4
INTL BUS/ REAL EST 430	International Real Estate	POLI SCI 637	Comparative Political Economy 3-4
INTL BUS/ FINANCE 445	Multinational Business Finance	POLI SCI 432	Comparative Legal Institutions 3-4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	POLI SCI 538	Politics and Policies in the European Union
LITTRANS/ MEDIEVAL 235	The World of Sagas	RELIG ST/ HISTORY/ MEDIEVAL 312	The Medieval Church
MARKETNG/ INTL BUS 420	Global Marketing Strategy	RELIG ST/ HISTORY 470	Religious Thought in Modern Europe
MATH/ HIST SCI 473	History of Mathematics	SOC/ C&E SOC 475	Classical Sociological Theory
MED HIST/ HIST SCI 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science
MED HIST/ HIST SCI/ HISTORY 508	Health, Disease and Healing II	SOC/ C&E SOC 623	Gender, Society, and Politics
MED HIST/ HIST SCI/ HISTORY/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	THEATRE 327	History of Costume for the Stage
MEDIEVAL/ HIST SCI 322	Ancient and Medieval Science	THEATRE 420	Theatre and Society
MUSIC 411	Survey of Music in the Middle Ages	THEATRE 521	The Pre-Modern Drama of Europe: 1650-1850
MUSIC 412	Survey of Music in the Renaissance	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
MUSIC 413	Survey of Music in the Baroque Era		
MUSIC 414	Survey of Music in the Classic Era		
MUSIC 415	Survey of Music in the Romantic Era		

## OPTION 2: THREE REGIONS/COUNTRIES

Seven courses from at least two **subjects** and from at least **three** regions/countries

### Ancient Europe

Code	Title	Credits
<i>Ancient Europe</i>		
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	





SLAVIC 454	Moderna srpska i hrvatska literatura	
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**Belgium**

Code	Title	Credits
<i>Belgium Used for Brussels Study Abroad courses</i>		

**Central Europe**

Code	Title	Credits
<i>Central Europe Also used for Central European Study Abroad courses</i>		

GERMAN 275	Kafka and the Kafkaesque	
HISTORY 600	Advanced Seminar in History (See advisor for approvable section for this region)	

**Denmark**

Code	Title	Credits
<i>Denmark</i>		

LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	
LITTRANS 339	In Translation: Kierkegaard and Scandinavian Literature	
SCAND ST 271	Readings in Danish Literature	
SCAND ST 375	The Writings of Hans Christian Andersen	
SCAND ST 426	Kierkegaard and Scandinavian Literature	
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	

**Eastern Europe**

Code	Title	Credits
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	
ANTHRO/ JEWISH/ RELIG ST 372	Jews of Central and Eastern Europe	
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	
GEOG 318	Introduction to Geopolitics	
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	
HISTORY 270	Eastern Europe since 1900	
HISTORY 425	History of Poland and the Baltic Area	
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for this region)	
LITTRANS 207	Slavic Science Fiction through Literature and Film	
LITTRANS 229	Representation of the Jew in Eastern European Cultures	

LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation	
LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	
LITTRANS 329	The Vampire in Literature and Film	
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	
RELIG ST/ ANTHRO/ JEWISH 372	Jews of Central and Eastern Europe	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	

**Europe as a Whole**

Code	Title	Credits
<b>Please see OPTION 1 Europe as a Whole Course List for approved courses for this category</b>		

**Finland**

Code	Title	Credits
<i>Finland</i>		
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	
MEDIEVAL/ SCAND ST 444	Kalevala and Finnish Folk-Lore	
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	

**France**

Code	Title	Credits
<i>France</i>		
COM ARTS 455	French Film	
FRENCH 210	Sexuality and Gender in 20th-Century French Literature	
FRENCH 240	Immigration and Expression	
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	

FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature
FRENCH 322	Introduction to Literature of Modernity
FRENCH 325	Visual Culture in French/ Francophone Studies
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization
FRENCH 348	Modernity Studies
FRENCH 430	Readings in Medieval and Renaissance Literature
FRENCH 431	Readings in Early Modern Literature
FRENCH 433	Readings in Twentieth and Twenty- First Century Literature
FRENCH 449	Francophone Modernity Studies
FRENCH 451	Medieval, Renaissance, and Early Modern Studies
FRENCH 461	French/Francophone Literary Studies Across the Centuries
FRENCH 462	French/Francophone Cultural Studies Across the Centuries
FRENCH 465	French/Francophone Film
FRENCH 467	Aspects of Contemporary French Literature
FRENCH 472	French/Francophone Literature and Women
FRENCH 567	Undergraduate Seminar in French/ Francophone Literary Studies
FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies
FRENCH 595	Theory and Practice of French/ Francophone Drama
FRENCH 618	Career Strategies for the French- Speaking World
FRENCH 626	Critical Approaches to French Literature
FRENCH 630	Le Siecle des Lumieres
FRENCH 631	Litterature Francaise Du XVIIIe Siecle
FRENCH 633	Le Roman Au XVIIIe Siecle
FRENCH 636	Le Roman Francais 1850-1900
FRENCH 637	La Littérature française du XIXe siècle
FRENCH 639	La Litterature Du XVIIe Siecle
FRENCH 640	La Litterature Du XVIIIe Siecle
FRENCH 642	Culture et sociétés dans le monde francophone
FRENCH 645	La Litterature Francaise du XVIe Siecle
FRENCH 646	La Litterature Francaise du XVIe Siecle
FRENCH 647	Le Roman Francais au XXe Siecle

FRENCH 653	Cinéma français/francophone
FRENCH 657	La Poesie Francaise du XIXe Siecle
HISTORY 320	Early Modern France, 1500-1715
HISTORY 348	France from Napoleon to the Great War, 1799-1914
HISTORY 349	Contemporary France, 1914 to the Present
HISTORY 358	French Revolution and Napoleon
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for France)
INTL BUS/ FRENCH 313	Professional Communication and Culture in the Francophone World
INTL BUS/ FRENCH 314	Contemporary Issues in Government, Organizations, and Enterprise
INTL BUS/ FRENCH 315	Advanced Interdisciplinary Studies in Professional Communication
LITTRANS 209	Masterpieces of French Literature and Culture
LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces
LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century
LITTRANS 272	French Pop Culture
LITTRANS 360	French and Italian Renaissance Literature Online
PHILOS 440	Existentialism

### Germany

Code	Title	Credits
Germany		
ART HIST 330	The Painting & Graphic Arts of Germany 1350-1530	3-4
ART HIST 454	Art in Germany, 1900-1945	3-4
COM ARTS/ GERMAN 655	German Film	3
CURRIC/HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3
GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
GERMAN 221	Introduction to German Literature and Culture I	3
GERMAN 222	Introduction to German Literature and Culture II	3
GERMAN 266	Topics in German and/or Yiddish Culture	3
GERMAN/ JEWISH 267	Yiddish Song and the Jewish Experience	3-4
GERMAN/JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	3
GERMAN 271	The German Immigration Experience	3
GERMAN 272	Nazi Culture	3

GERMAN 274	Introduction to German Literature	6	LITTRANS/ FOLKLORE/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
GERMAN 275	Kafka and the Kafkaesque	3	MEDIEVAL/ FOLKLORE/ LITTRANS 346	In Translation: The Icelandic Sagas	3-4
GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	3	MEDIEVAL/ SCAND ST 409	Survey of Old Norse-Icelandic Literature	3
GERMAN 278	Topics in German Culture	3	SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	3
GERMAN 284	Honors Introduction to German Literature	6	SCAND ST 411	Areas in Scandinavian Literature	1
GERMAN 303	Literatur des 19. Jahrhunderts	3-4	SCAND ST 435	The Icelandic Sagas	4
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4			
GERMAN 362	Topics in German Literature	3-4			
GERMAN 367	Study Abroad in German Literature	2-5			
GERMAN 368	Study Abroad in German Culture	2-5			
GERMAN 372	Topics in German Culture	3-4			
GERMAN 385	Honors Seminar in German Literature	3			
GERMAN 410	Kultur 1648-1918	3-4			
GERMAN 411	Kultur des 20. Jahrhunderts	3-4			
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3			
GERMAN/ MEDIEVAL 611	Survey of German Literature to 1700	3			
GERMAN 612	German Literary Movements Since 1750	3			
GERMAN 632	A Theme in German Literature	3			
GERMAN 644	Theory and Practice of German Drama	3			
GERMAN 645	Cultuurkunde der Lage Landen	3-4			
GERMAN/ COM ARTS 655	German Film	3			
GERMAN 676	Advanced Seminar in German Studies	3			
GERMAN 677	Seminar in German Culture Studies	3			
GERMAN 683	Senior Honors Seminar in German Literature	3			
HISTORY 410	History of Germany, 1871 to the Present	3-4			
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for Germany)	3			
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3			
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3			
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation)	3			
MEDIEVAL/ GERMAN 611	Survey of German Literature to 1700	3			
PHILOS/ JEWISH 442	Moral Philosophy and the Holocaust	3			
<b>Ireland</b>					
<b>Code</b>	<b>Title</b>				<b>Credits</b>
Ireland					
ENGL 352	Modernist Poetry				3
ENGL 454	James Joyce				3
HISTORY 503	Irish and Scottish Migrations				3
THEATRE 619	Special Topics in Theatre and Drama (Irish Theatre)				1-3
<b>Italy</b>					
<b>Code</b>	<b>Title</b>				<b>Credits</b>
Italy					
ART HIST 320	Italian Renaissance Art				3-4
ART HIST 321	Italian Art: 1250-1400				3-4
ART HIST 322	Italian Art from Donatello to Leonardo da Vinci, 1400-1500				3-4
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy				3-4
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art				1-6
ART HIST 408	Topics in Twentieth-Century Art (Modern Italian Art)				3-4
ART HIST 420	Topics in Italian Renaissance Art				3
ART HIST 425	Race and Gender in Italian Early Modern Art				3
ART HIST 525	Proseminar in Italian Renaissance Art				3
COM ARTS/ ITALIAN 460	Italian Film				3
HIST SCI 512	Galileo Galilei: Life, Writings, and Interpretations				3-4
HISTORY 307	A History of Rome				3-4
HISTORY 333	The Renaissance				3-4
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for Italy)				3
ITALIAN 230	Modern Italian Culture				3
ITALIAN 321	Introduction to Italian Literature				3
ITALIAN 322	Introduction to Italian Literature				3
ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City				3-4
ITALIAN 450	Special Topics in Italian Literature				3

ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	1
ITALIAN/ COM ARTS 460	Italian Film	3
ITALIAN/CLASSICS/ FRENCH/HISTORY/ MIEVEAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
ITALIAN 601	L'Ottocento	3
ITALIAN 621	Il Settecento	3
ITALIAN 622	Il Settecento	3
ITALIAN 623	Il Teatro Italiano	3
ITALIAN 631	Lineamenti Di Letteratura Italiana	3
ITALIAN 632	Lineamenti Di Letteratura Italiana	3
ITALIAN 635	Il Romanzo Italiano	3
ITALIAN 636	Il Romanzo Italiano	3
ITALIAN 637	La Poesia del Novecento	3
ITALIAN 641	Il Seicento: Ribelli, Libertini e Ortodossi	3
ITALIAN 651	Il Rinascimento	3
ITALIAN/ MIEVEAL 659	Dante's Divina Commedia	3
ITALIAN/ MIEVEAL 660	Dante's Divina Commedia	3
ITALIAN/ MIEVEAL 671	Il Duecento	3
ITALIAN/ MIEVEAL 672	Il Duecento	3
LITTRANS 213	Love and Sex in Italian Comedy	3-4
LITTRANS/ MIEVEAL/ RELIG ST 253	Literature in Translation: Dante's Divine Comedy	3
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
LITTRANS 255	Literature in Translation: Boccaccio's Decameron-The Human Comedy	3
LITTRANS 256	Lit in Translation: Images of the Individual in the Italian Renaissance	3
LITTRANS 260	Italy and the Invention of America: from Columbus to World War II	3
LITTRANS 400	Machiavelli and His World	3
LITTRANS 410	In Translation: Special Topics in Italian Literature	3
MIEVEAL/ LITTRANS/ RELIG ST 253	Literature in Translation: Dante's Divine Comedy	3
RELIG ST 400	Topics in Religious Studies - Humanities (Francis of Assisi)	3-4

### Netherlands

Code	Title	Credits
Netherlands		

ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	3-4
ART HIST 332	Northern Painting and Graphics from Bosch and Holbein to Bruegel	3-4
ART HIST 333	Netherlandish Painting of the 17th Century	3-4
GERMAN 245	Topics in Dutch Life and Culture	3
GERMAN 325	Topics in Dutch Literature	3
GERMAN 377	Study Abroad in Dutch Literature	2-5
GERMAN 378	Study Abroad in Dutch Culture	2-5
GERMAN 445	Topics in Dutch Culture	3-4
GERMAN 625	Letterkunde der Lage Landen	3-4
GERMAN 645	Cultuurkunde der Lage Landen	3-4
JEWISH 490	Topics in Jewish Studies (Spinoza)	3
LITTRANS 326	Topics in Dutch Literature in Translation	3

### Norway

Code	Title	Credits
Norway		
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
SCAND ST 251	Readings in Norwegian Literature	3-4
SCAND ST 422	The Drama of Henrik Ibsen	4
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
THEATRE/ LITTRANS 335	In Translation: The Drama of Henrik Ibsen	3-4

### Poland

Code	Title	Credits
Poland		
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3

### Portugal

Code	Title	Credits
Portugal		
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
PORTUG 361	Portuguese Civilization	3
PORTUG 411	Survey of Portuguese Literature before 1825	3

PORTUG 467	Survey of Portuguese Literature since 1825	3	MEDIEVAL/ FOLKLORE/ LITTRANS 345	In Translation: The Scandinavian Tale and Ballad	3-4
<b>Scandinavia</b>					
<b>Code</b>	<b>Title</b>	<b>Credits</b>			
Scandinavia					
FOLKLORE/ LITTRANS/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4	MEDIEVAL/ SCAND ST 430	The Vikings	4
FOLKLORE/ LITTRANS/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4	MEDIEVAL/ FOLKLORE/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	3
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4	SCAND ST 276	Scandinavian Life and Civilization	3
FOLKLORE/ MEDIEVAL/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	3	SCAND ST 284	The "Scandinavian Modern" Phenomenon in Arts and Literature	3
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3	SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4	SCAND ST 411	Areas in Scandinavian Literature	1
LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	3-4	SCAND ST 419	Scandinavian Children's Literature	4
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	SCAND ST 420	The Woman in Scandinavian Literature	4
LITTRANS/L I S 319	Scandinavian Children's Literature	3-4	SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4
LITTRANS 324	Topics in Scandinavian Literature	3-4	SCAND ST 427	Contemporary Scandinavian Literature	4
LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2	SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	3
LITTRANS 337	In Translation: 19th Century Scandinavian Fiction	3-4	SCAND ST 429	Mythology of Scandinavia	4
LITTRANS 340	Contemporary Scandinavian Literature in Translation	3-4	SCAND ST/ MEDIEVAL 430	The Vikings	4
LITTRANS/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4	SCAND ST/ HISTORY 431	History of Scandinavia to 1815	3
LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
LITTRANS/ FOLKLORE/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4	SCAND ST 433	The Scandinavian Tale and Ballad	4
LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4	SCAND ST 436	Topics in Scandinavian Literature	3-4
LITTRANS 350	Scandinavian Decadence in its European Context	3-4	SCAND ST 437	Modern Scandinavian Drama	4
MEDIEVAL/ FOLKLORE/ LITTRANS/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4	SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
			SCAND ST 450	Scandinavian Decadence in its European Context	3-4
			SCAND ST 466	Greenland - Past, Present, and Future	3
			SCAND ST 476	Scandinavian Life and Civilization II	4
			SCAND ST 496	The Scandinavian Heritage in America	3
			SCAND ST 520	Special Topics	3
			SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
			SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
			SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
			SCAND ST 636	Survey of Scandinavian Literature: 1890-1920	3

<b>Spain</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Spain		
LITTRANS 252	Spanish Literary Masterpieces in Translation	3
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for Spain)	3
MEDIEVAL/ SPANISH 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
MEDIEVAL/ SPANISH 503	Survey of Medieval Literature	3
MEDIEVAL/ SPANISH 504	Survey of Medieval Literature	3
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 359	Spanish Business Area Studies	3
SPANISH 361	Spanish Civilization	3
SPANISH/ MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH 417	Literatura del Siglo de Oro	3-4
SPANISH 435	Cervantes	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH 468	Topics in Hispanic Culture	3
SPANISH/ MEDIEVAL 503	Survey of Medieval Literature	3
SPANISH/ MEDIEVAL 504	Survey of Medieval Literature	3
SPANISH 505	Advanced Survey of Spanish Literature	3
SPANISH 506	Advanced Survey of Spanish Literature	3
SPANISH 627	Historia de Teoria Literaria: de Platon Al Siglo XVIII	3
SPANISH 628	Historia de Teoria Literaria: Siglos XIX-XX	3

<b>Sweden</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Sweden		
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	3-4
SCAND ST 261	Readings in Swedish Literature	3-4
SCAND ST 423	The Drama of August Strindberg	4
THEATRE/ LITTRANS 336	In Translation: The Drama of August Strindberg	3-4

<b>Switzerland</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Switzerland		

FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies	3
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<b>Turkey</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Turkey		
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
HISTORY/GEN&WS/ LCA 472	Women in Turkish Society	3
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for Turkey)	3
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3
LCA/GEN&WS/ HISTORY 472	Women in Turkish Society	3
LCA 579	Fiction and Ethnography in Turkey	3

<b>United Kingdom</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
United Kingdom		
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	
ENGL 219	Shakespearean Drama	
ENGL 220	Shakespearean Drama	
ENGL 328	The Sixteenth Century	
ENGL 331	Seventeenth-Century Literature and Culture	
ENGL 334	Eighteenth Century Literature and Culture	
ENGL 335	Stage and Page in the Long Eighteenth Century	
ENGL 336	Eighteenth-Century Novel	
ENGL/ MEDIEVAL 424	Medieval Drama	
ENGL/ MEDIEVAL 425	Medieval Romance	
ENGL/ RELIG ST 434	Milton	
ENGL 341	Romantic Poetry	
ENGL 344	Victorian Literature and Culture	
ENGL 345	Nineteenth-Century Novel	
ENGL 346	Victorian Poetry	
ENGL 351	Modernist Novel	
ENGL 353	British Literature since 1900	
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	
ENGL 422	Outstanding Figure(s) in Literature before 1800	
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	

ENGL/ MEDIÉVAL 426	Chaucers Courtly Poetry
ENGL/ MEDIÉVAL 427	Chaucer's Canterbury Tales
ENGL 430	Topic in Early Modern Literature and Culture
ENGL 431	Early Works of Shakespeare
ENGL 432	Later Works of Shakespeare
ENGL 433	Spenser
ENGL 438	Topic in Eighteenth-Century Literature and Culture
ENGL 443	Outstanding Figure(s) in Literature since 1800
ENGL 444	Topic in Romantic or Victorian Literature and Culture
ENGL 453	Topic in British Literature and Culture since 1900
ENVIR ST 307	Literature of the Environment: Speaking for Nature
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)
HISTORY 123	English History: England to 1688
HISTORY 124	British History: 1688 to the Present
HISTORY 361	The Emergence of Mod Britain: England 1485-1660
HISTORY 367	Society and Ideas in Shakespeare's England
HISTORY 503	Irish and Scottish Migrations
HISTORY 600	Advanced Seminar in History (See advisor for approvable sections for the United Kingdom)
MEDIÉVAL 351	Arthurian Legend and Literature
MEDIÉVAL/ ENGL 423	Topic in Medieval Literature and Culture
THEATRE/ ENGL 575	British Drama, 1914 to Present

## RESIDENCE AND QUALITY OF WORK

2.500 GPA on all certificate approved courses

11 credits in the certificate, in residence

## LEARNING OUTCOMES

- 1. Historical Grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
- 2. Multi-disciplinarity:** analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
- 3. Depth of knowledge:** mastering at the undergraduate generalist level a particular facet of life in the region by taking seven courses on three particular sub-regions or countries or by taking seven courses on the region in more than one discipline

**4. Language knowledge:** mastering at undergraduate generalist level a particular facet of life in the region by studying a regional language to the intermediate level.

## ADVISING AND CAREERS

Advising for the certificate is through the Institute for Regional and International Studies (IRIS). The IRIS assistant director for students and curriculum can assist students in developing a plan of study for the certificate, track progress toward the certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

## RESOURCES

- Make a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- L&S Career Initiative (<http://ls.wisc.edu/about/lscip?p=careerinitiative.html>)

## PEOPLE

Faculty: Ringe (director, Political Science), Brossard (Life Sciences Communication), Covington (European Studies), Ferree (Sociology), Klug (Law), Livorni (French and Italian), Moynihan (Public Affairs), Olds (Geography), Potter (CGES, German), Wolf (Scandinavian Studies)

## GLOBAL CULTURES, CERTIFICATE

**Effective spring 2015, admission to the undergraduate-level certificate in global cultures has been suspended. Students currently enrolled in the program will be supported to continue in the certificate but no new students will be allowed to enroll as of spring 2015. For advising assistance, please consult the undergraduate advisor for the certificate.**

The Global Cultures Program is an interdisciplinary certificate program in the College of Letters & Science. The program draws on the rich array of area studies courses and comparative studies courses offered at the UW–Madison, providing a framework for linkages between cross-cultural academic work and study abroad programs. The goals of the program are several: to better integrate campus coursework or individual majors with study abroad, to stress cross-cultural learning experiences; and to help students find an international pathway toward satisfying the college breadth requirements.

The program is affiliated with the International Institute (<http://www.intl-institute.wisc.edu>) and the Integrated Liberal Studies Program (ILS) (<http://www.wisc.edu/ils>). Whereas ILS focuses on Western culture and offers its own set curriculum, the Global Cultures Program focuses on



comparisons between cultures, both Western and non-Western, and offers courses drawn from more than 30 departments.

## HOW TO GET IN

Effective spring 2015, admission to the undergraduate-level certificate in global cultures has been suspended. Students currently enrolled in the program will be supported to continue in the certificate but no new students will be allowed to enroll as of spring 2015. For advising assistance, please consult the undergraduate advisor for the certificate.

## REQUIREMENTS

Effective spring 2015, admission to the undergraduate-level certificate in global cultures has been suspended. Students currently enrolled in the program will be supported to continue in the certificate but no new students will be allowed to enroll as of spring 2015. For advising assistance, please consult the undergraduate advisor for the certificate.

There are four components to the certificate: the foundations course, language requirement, global cultures electives, and the capstone seminar.

The foundations course initiates students into themes of cross-cultural contact as a result of globalization. Students may then choose from introductory courses about a specific culture or about cultures that transcend traditional boundaries and upper-level courses focusing on comparative cultures to fulfill 12 credits of electives. In lieu of these introductory and upper-level courses, students may count up to 12 credits from UW study abroad coursework toward these areas. See below for specific guidelines. The capstone senior seminar helps integrate the knowledge gained by students during their comparative coursework and/or overseas study.

Students who complete 21 credits in the program are eligible for the certificate.

**Note that the foundations course may not be taken concurrently with the capstone seminar.**

Requirements for the certificate include:

Code	Title	Credits
<b>Foundations Course</b>		
ILS 209	Introduction to Global Cultures	3
or GEOG 101	Introduction to Human Geography	
<b>Language Requirement</b>		
Fifth-semester college-level foreign language course <sup>1</sup>		3
<b>Global Cultures Electives</b>		
Select one of the following:		12
Global Cultures elective courses with a minimum of 6 cr of the electives must be upper-level (300 level or above) <sup>2</sup>		
Study Abroad courses (see specifics below about study abroad courses)		
<b>Capstone Seminar</b>		
Select one of the following Cross-Cultural Capstone Senior Seminar:		3
LCA 615	Writing Travels (fall)	

ILS 401	Global Cultures Capstone Seminar (spring)
Approved substitution (see advisor)	
Total Credits	21

- <sup>1</sup> For students whose native language is not English, this requirement may be waived.
- <sup>2</sup> Choose from introductory courses or upper-level (300 level or above) comparative courses.

## STUDY ABROAD COURSES

Study abroad courses will count toward the certificate. The length of stay will determine how many credits may be counted toward the certificate. Students should keep in mind that at least 6 of the 12 global cultures elective credits must be at the 300 level or above.

## LENGTH OF STAY / MAXIMUM CREDITS

Code	Title	Credits
Academic year		12
Semester		6
Summer		3

## INTERNATIONAL STUDIES, B.A.

International Studies (IS) offers an interdisciplinary major with a broad background in international and transnational political, social, economic, commercial, and environmental affairs, together with a comparative study of politics, economics, security, and culture. The goal is to provide students with the necessary tools to understand global processes in their totality and how they are situated and lived in specific regions. The major provides an integrated program of courses that lays the foundation for professional training in a wide variety of areas. Such a foundation can be invaluable in securing a place in competitive graduate or professional schools, which, in turn, prepare students for government service, or for other careers with an international focus, including those in multinational corporations, international finance, non-governmental organizations, and institutions of teaching and research.

The IS major complements numerous majors across campus. Many students choose to double major or enhance their studies with one or more certificates, such as the global health certificate or those offered by the area studies centers.

This major is interdisciplinary, offering a wealth of options. Careful planning and consultation with the IS advisor is especially important.

## IS MAJORS SPECIALIZE IN ONE OF THREE OPTIONS:

### Option I: Global Security

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

**Option II: Politics and Policy in the Global Economy**

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

**Option III: Culture in the Age of Globalization**

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

**STUDY ABROAD**

International studies and studying abroad are a natural combination. While study abroad is not a requirement for the major, all IS students are strongly encouraged to pursue a significant international experience during the course of the undergraduate career. Whether through a study abroad program, an internship, or service learning, the experience of studying or working in a foreign culture is invaluable. Many courses taken abroad will count toward the IS major. See the IS advisor for specific guidelines. More information about study abroad and internships is available through International Academic Programs (<http://www.studyabroad.wisc.edu>).

**HOW TO GET IN**

Students are advised to declare the major by the end of the sophomore year and/or before studying abroad. To be eligible to declare the international studies major a student must have a GPA of 2.000 both in the major and overall, and have completed (or be in progress toward completing) the following courses, with a minimum combined 2.000 GPA:

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
Complete the 5th unit of a foreign language <sup>1</sup>		
Select one of the following:		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment <sup>2</sup>	

<sup>1</sup> This requirement must be completed before graduation. ESL 118 substitutes for the foreign language admission requirement.

<sup>2</sup> ECON 111 requires placement in MATH 221 or higher and is limited enrollment.

**REQUIREMENTS****UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General Education	Requirements
	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

**COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)**

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

**BACHELOR OF ARTS DEGREE REQUIREMENTS****Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	• Complete the fourth unit of a foreign language; OR • Complete the third unit of a foreign language and the second unit of an additional foreign language
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Note: A unit is one year of high school work or one semester/term of college work.

- L&S Breadth
- Humanities, 12 credits: 6 of the 12 credits must be in literature
  - Social Sciences, 12 credits
  - Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS OF THE MAJOR

Students must declare the major, complete the common requirements, and the requirements for one of the options within the international studies major.

The international studies major offers three options:

1. Culture in the Age of Globalization
2. Global Security
3. Politics and Policy in the Global Economy

A student may not declare or earn more than one major option.

## COMMON MAJOR REQUIREMENTS

### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
Complete the 5th Unit of a Foreign Language (see course list below) <sup>1</sup>		
Select one of the following:		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment <sup>2</sup>	
Total Credits		7-12

<sup>1</sup> ESL 118 Academic Writing II substitutes for the Foreign Language requirement.

<sup>2</sup> ECON 111 requires placement in MATH 221 or higher is limited enrollment.

### 5th Unit of Foreign Language Course List

Code	Title	Credits
AFRICAN 435	Advanced Studies in Swahili Language-Grammar	3
AFRICAN 436	Advanced Studies in Swahili Language-Readings	3
AFRICAN/LCA LANG 445	Readings in Advanced Arabic Texts	3
AFRICAN 475	Fifth Semester Yoruba	3
AFRICAN 476	Sixth Semester Yoruba	3
AFRICAN 491	Fifth Semester, A Language of Central Africa	3
AFRICAN 493	Fifth Semester, A Language of Southern Africa	3
AFRICAN 494	Sixth Semester, A Language of Southern Africa	3
AFRICAN 495	Fifth Semester, A Language of Northern Africa	3
AFRICAN 496	Sixth Semester, A Language of Northern Africa	3
AFRICAN 497	Fifth Semester, A Language of West Africa	3
AFRICAN 498	Sixth Semester, A Language of West Africa	3
E ASIAN 301	Fifth Semester Chinese	4
E ASIAN 302	Sixth Semester Chinese	4
E ASIAN 303	Fifth Semester Japanese	4
E ASIAN 304	Sixth Semester Japanese	4
E ASIAN 335	Intermediate Japanese Conversation	3
E ASIAN 347	Fifth Semester Korean	3
E ASIAN 348	Sixth Semester Korean	3
E ASIAN 351	Survey of Chinese Literature	3
E ASIAN 354	Survey of Japanese Literature	3
E ASIAN 401	Seventh Semester Chinese	3
E ASIAN 402	Eighth Semester Chinese	3
E ASIAN 403	Seventh Semester Japanese	3
E ASIAN 404	Eighth Semester Japanese	3
E ASIAN 405	Seventh Semester Korean	3
E ASIAN 406	Eighth Semester Korean	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN 501	Fifth-year Chinese	3
E ASIAN 563	Readings in Modern Japanese Literature	3
E ASIAN 564	Readings in Modern Japanese Literature	3
E ASIAN 573	Readings in Classical Japanese Literature	3

E ASIAN 574	Readings in Classical Japanese Literature	3	GERMAN 235	Dutch Conversation and Composition	3
E ASIAN 651	History of Chinese Literature	3	GERMAN 249	Intermediate German - Speaking and Listening	3
E ASIAN 652	History of Chinese Literature	3	GERMAN 258	Intermediate German-Reading	3
FRENCH 227	Exploring French: Intermediate-Level Course for Entering Students	3	GERMAN 262	Intermediate German-Writing	3
FRENCH 228	Intermediate Language and Culture	3-4	GERMAN 274	Introduction to German Literature	6
FRENCH 271	Introduction to Literary Analysis	3-4	GERMAN 284	Honors Introduction to German Literature	6
FRENCH 311	Advanced Composition and Conversation	3	GERMAN 303	Literatur des 19. Jahrhunderts	3-4
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GERMAN 313	Third Semester Dutch for Graduate Students	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GERMAN 325	Topics in Dutch Literature	3
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3	GERMAN 337	Advanced Composition & Conversation	3-4
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3	GERMAN 351	Introduction to German Linguistics	3-4
FRENCH 322	Introduction to Literature of Modernity	3	GERMAN 352	Topics in German Linguistics	3-4
FRENCH 325	Visual Culture in French/ Francophone Studies	3	GERMAN 367	Study Abroad in German Literature	2-5
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3	GERMAN 368	Study Abroad in German Culture	2-5
FRENCH 348	Modernity Studies	3	GERMAN 369	Study Abroad in German Linguistics	2-5
FRENCH 350	Applied French Language Studies	1-3	GERMAN 377	Study Abroad in Dutch Literature	2-5
FRENCH/ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3	GERMAN 378	Study Abroad in Dutch Culture	2-5
FRENCH 430	Readings in Medieval and Renaissance Literature	3	GERMAN 379	Study Abroad in Dutch Linguistics	2-5
FRENCH 431	Readings in Early Modern Literature	3	GERMAN 410	Kultur 1648-1918	3-4
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3	GERMAN 411	Kultur des 20. Jahrhunderts	3-4
FRENCH 449	Francophone Modernity Studies	3	GERMAN 625	Letterkunde der Lage Landen	3-4
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3	GERMAN 632	A Theme in German Literature	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GERMAN 645	Cultuurkunde der Lage Landen	3-4
FRENCH 472	French/Francophone Literature and Women	3	GERMAN 677	Seminar in German Culture Studies	3
FRENCH 590	Advanced Phonetics	3	GREEK 401	Greek Drama	3
FRENCH 595	Theory and Practice of French/ Francophone Drama	4	GREEK 402	Greek Drama and Lyric Poetry	3
GERMAN 221	Introduction to German Literature and Culture I	3	GREEK 505	Elementary Prose Composition	3
GERMAN 222	Introduction to German Literature and Culture II	3	GREEK 510	Homer	3
GERMAN 225	Composition and Conversation I	3	GREEK 511	Hesiod	3
GERMAN 226	Composition and Conversation II	3-4	GREEK 512	Greek Lyric Poets	3
			GREEK 520	Greek Comedy	3
			GREEK 521	Greek Tragedy	3
			GREEK 532	Thucydides	3
			GREEK 541	Plato	3
			GREEK 551	Attic Orators	3
			GREEK 560	Hellenistic Greek	3
			GREEK 564	Plutarch	3
			HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	3
			HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	3
			HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
			HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
			HEBR-BIB/ JEWISH 513	Biblical Texts, Poetry	3

HEBR-BIB/ JEWISH 514	Biblical Texts, Poetry	3	LCA LANG 510	Sixth Semester Indonesian	3
HEBR-BIB 641	The Book of Ezekiel	3	LCA LANG 513	Fifth Semester Khmer	3
HEBR-BIB 701	Aramaic I	3	LCA LANG 514	Sixth Semester Khmer	3
HEBR-BIB 702	Aramaic II	3	LCA LANG 515	Fifth Semester Lao	3
HEBR-BIB 703	Ugaritic Texts	3	LCA LANG 516	Sixth Semester Lao	3
HEBR-BIB 704	Canaanite Dialects	3	LCA LANG 517	Fifth Semester Thai	3
HEBR-BIB 705	Syriac I	3	LCA LANG 518	Sixth Semester Thai	3
HEBR-BIB 706	Syriac II	3	LCA LANG 519	Fifth Semester Vietnamese	3
HEBR-BIB 723	Classical Hebrew Linguistics: Historical and Descriptive	3	LCA LANG 520	Sixth Semester Vietnamese	3
HEBR-BIB 751	The Book of Isaiah	3	LCA LANG/ AFRICAN 527	Advanced Summer Immersion Arabic	8
ITALIAN 230	Modern Italian Culture	3	LCA LANG 528	Advanced Summer Immersion Persian	8
ITALIAN 311	Advanced Italian Language	3	LCA LANG 529	Advanced Summer Immersion Turkish	8
ITALIAN 312	Writing Workshop	3	LCA LANG 531	Fifth Semester Kazak	3
ITALIAN 321	Introduction to Italian Literature	3	LCA LANG 532	Sixth Semester Kazak	3
ITALIAN 322	Introduction to Italian Literature	3	LCA LANG 539	Fifth Semester Turkish and Azeri	3
ITALIAN 423	Corso Di Stilistica Applicata	3	LCA LANG 540	Sixth Semester Turkish and Azeri	3
ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3	LCA LANG 553	Fifth Semester Hindi	3-4
ITALIAN 450	Special Topics in Italian Literature	3	LCA LANG 554	Sixth Semester Hindi	3-4
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3	LCA LANG 557	Fifth Semester Tibetan	4
ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	1	LCA LANG 558	Sixth Semester Tibetan	4
ITALIAN 601	L'Ottocento	3	LCA LANG 563	Fifth Semester Persian	3
ITALIAN 621	Il Settecento	3	LCA LANG 564	Sixth Semester Persian	3
ITALIAN 631	Lineamenti Di Letteratura Italiana	3	LCA LANG 571	Fifth Semester Urdu	3-4
ITALIAN 635	Il Romanzo Italiano	3	LCA LANG 572	Sixth Semester Urdu	3-4
ITALIAN 636	Il Romanzo Italiano	3	LCA LANG 601	Seventh Semester Asian Language	3
ITALIAN 637	La Poesia del Novecento	3	LCA LANG 602	Eighth Semester Asian Language	3
ITALIAN 651	Il Rinascimento	3	LCA LANG 616	Modern Thai Literature: The Novel	3
ITALIAN/ MEDIÉVAL 659	Dante's Divina Commedia	3	LCA LANG 617	Thai Poetry	3
ITALIAN/ MEDIÉVAL 660	Dante's Divina Commedia	3	LCA LANG 618	Thai Prose Literature: The Short Story	3
ITALIAN/ MEDIÉVAL 671	Il Duecento	3	LCA LANG 631	Advanced Readings in Turkic Languages	3
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3	LCA LANG 644	Readings in Otoman Turkish and Chagatay	3
LATIN 301	Latin Literature of the Roman Republic	3	LCA LANG 648	Advanced Readings in Pali Literature	3
LATIN 302	Latin Literature of the Roman Empire	3	LCA LANG 653	Advanced Readings in Hindi Language	3
LATIN 505	Elementary Prose Composition	3	LCA LANG 654	Advanced Readings in Hindi Literature	3
LCA LANG 501	Fifth Semester Asian Language	3	LCA LANG 671	Advanced Readings in Urdu Language	3
LCA LANG 503	Fifth Semester Burmese	3	LCA LANG 675	Advanced Readings in Sanskrit	3
LCA LANG 504	Sixth Semester Burmese	3	LCA LANG 677	Advanced Readings in Tibetan	3
LCA LANG 505	Fifth Semester Filipino	3	PORTUG 225	Third Year Conversation and Composition	3
LCA LANG 506	Sixth Semester Filipino	3	PORTUG 226	Third Year Conversation and Composition	3
LCA LANG 507	Fifth Semester Hmong	3	PORTUG 311	Fourth Year Composition and Conversation	3
LCA LANG 508	Sixth Semester Hmong	3			
LCA LANG 509	Fifth Semester Indonesian	3			

PORTUG 312	Fourth Year Composition and Conversation	3	SLAVIC 424	Tolstoy	3-4
SCAND ST 251	Readings in Norwegian Literature	3-4	SLAVIC 440	Soviet Literature	3-4
SCAND ST 261	Readings in Swedish Literature	3-4	SLAVIC 472	Historia literatury polskiej po roku 1863	3
SCAND ST 271	Readings in Danish Literature	3-4	SPANISH 223	Introduction to Hispanic Cultures	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4	SPANISH 224	Introduction to Hispanic Literatures	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3
SCAND ST 375	The Writings of Hans Christian Andersen	3-4	SPANISH 311	Advanced Language Practice	3
SCAND ST 401	Contemporary Scandinavian Languages	3	SPANISH 319	Topics in Spanish Language Practice	1-3
SCAND ST 419	Scandinavian Children's Literature	4	SPANISH 320	Spanish Phonetics	3
SCAND ST 420	The Woman in Scandinavian Literature	4	SPANISH 322	Survey of Early Hispanic Literature	3
SCAND ST 422	The Drama of Henrik Ibsen	4	SPANISH 327	Introduction to Spanish Linguistics	3
SCAND ST 423	The Drama of August Strindberg	4	SPANISH 361	Spanish Civilization	3
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4	SPANISH 363	Spanish American Civilization	3
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SPANISH 417	Literatura del Siglo de Oro	3-4
SCAND ST 426	Kierkegaard and Scandinavian Literature	4	SPANISH 435	Cervantes	3
SCAND ST 427	Contemporary Scandinavian Literature	4	SPANISH 453	Literature of the Twentieth Century	3
SCAND ST 433	The Scandinavian Tale and Ballad	4	SPANISH/CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SPANISH 460	Literatura Hispanoamericana	3
SCAND ST 435	The Icelandic Sagas	4	SPANISH 461	The Spanish American Short Story	3
SCAND ST 437	Modern Scandinavian Drama	4	SPANISH 462	Spanish American Theater and Drama	3
SCAND ST 496	The Scandinavian Heritage in America	3	SPANISH 463	The Spanish American Novel	3
SLAVIC 275	Third Year Russian I	3-4	SPANISH 464	Spanish American Poetry and Essay	3
SLAVIC 276	Third Year Russian II	3-4	SPANISH 465	Literature and Film in Spanish America	3
SLAVIC 277	Third Year Polish I	3	SPANISH 466	Topics in Spanish American Literature	1
SLAVIC 278	Third Year Polish II	3	SPANISH 468	Topics in Hispanic Culture	3
SLAVIC 302	Zarys historii literatury polskiej	3	SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	3
SLAVIC 307	Study Abroad in Poland	1-4	SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4			
SLAVIC 309	Russian Area Studies on Study Abroad	1-4			
SLAVIC 315	Russian Language and Culture I	2			
SLAVIC 316	Russian Language and Culture II	2			
SLAVIC 321	Fourth Year Russian I	4			
SLAVIC 322	Fourth Year Russian II	4			
SLAVIC 331	Fourth Year Polish I	3			
SLAVIC 332	Fourth Year Polish II	3			
SLAVIC 350	Special Topics in Russian Language, Literature, and Culture	3			
SLAVIC 420	Chekhov	3-4			
SLAVIC 421	Gogol	3-4			
SLAVIC 422	Dostoevsky	3-4			

## AREA STUDIES

Area studies courses help students focus their on a specific geographic regions. Students must choose one course from:

Code	Title	Credits
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
GEOG 340	World Regions in Global Context	3
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY 142	History of South Asia to the Present	3-4

HISTORY 201	The Historian's Craft (Portraying China)	3-4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY 378	History of Africa Since 1870	3-4
HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
LCA 266	Introduction to the Middle East	3
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	4
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	4

**RESIDENCE & QUALITY OF WORK**

2.000 GPA in all INTL ST courses and other courses in the major

2.000 GPA on 15 upper-level major credits, taken in residence

15 credits in the major, taken on the UW–Madison campus<sup>3</sup>

<sup>3</sup> Major courses with Intermediate and Advanced level are considered Upper-Level.

**OPTIONS WITHIN THE MAJOR**

Each option in the major **requires 35 credits**. Students select one Area Studies course (above), and the option-specific requirements for Core, Issues, and Elective classes (below).<sup>4</sup>

**CULTURE IN THE AGE OF GLOBALIZATION**

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

**Culture Core**

Two courses from:

Code	Title	Credits
AFRICAN 669	Special Topics (Celebrity Culture)	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
GEN&WS 420	Women in Cross-Societal Perspective	3
HISTORY 403	Immigration and Assimilation in American History	3-4
INTL ST 403	Topics in Culture in the Age of Globalization	3-4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
INTL ST 603	Topics in Culture in the Age of Globalization	1-4
INTL ST 620	Topics in International Studies (Global Social Networks)	1-4
JOURN 620	International Communication	4
JOURN 621	Mass Communication in Developing Nations	4
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4
PSYCH 528	Introduction to Cultural Psychology	3
SOC 626	Social Movements	3
THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3

**Culture Issues**

15 credits from:

Code	Title	Credits
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4

AFRICAN/ FRENCH 440	African/Francophone Film	3	AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3	AFROAMER/ GEN&WS 333	Black Feminisms	3
AFRICAN 453	Modern African Literature in English	3-4	AFROAMER 337	The Harlem Renaissance	3
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4	AFROAMER 338	The Black Arts Movement	3
AFRICAN 500	Language and Society in Africa	3-4	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3	AFROAMER 469	Interdisciplinary Studies in the Arts	1-4
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER 265	African-American Autobiography	3	AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	AFROAMER/ POLI SCI 519	African American Political Theory	3-4
AFROAMER 271	Selected Topics in African American Culture	3	AFROAMER/HDFS/ SOC WORK 521	African American Families	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3	AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3	AFROAMER 525	Major Authors	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3
AFROAMER 302	Undergraduate Studies in Afro-American History	3	AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3
AFROAMER 303	Blacks, Film, and Society	3	AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2	AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2	AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2	AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2	AFROAMER 669	Interdisciplinary Studies in the Arts	1-4
AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	AFROAMER 671	Selected Topics in Afro-American History	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4	AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4	AFROAMER 673	Selected Topics in Afro-American Society	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3	AFROAMER 675	Selected Topics in Afro-American Culture	3
			AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3
			AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
			ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
			ANTHRO 327	Peoples of the Andes Today	3



ANTHRO 330	Topics in Ethnology (SE Asia)	3-4	COMP LIT 375	Literature and Related Disciplines	3-4
ANTHRO 330	Topics in Ethnology (Brazil)	3-4	COMP LIT 379	Literature and Ethnic Experience	3-4
ANTHRO 350	Political Anthropology	3-4	DS 639/ LAND ARC DS 639	Culture and Built Environment	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3
ANTHRO 358	Anthropology of China	3	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4	E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3
ANTHRO/LCA 462	Anthropology of South Asia	3	E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3
ANTHRO 490	Undergraduate Seminar	3	E ASIAN 253	Introduction to Japanese Culture and Civilization	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4	E ASIAN 301	Fifth Semester Chinese (Contemporary Chinese Society)	4
ANTHRO 677	Public Monuments and Symbols	3	E ASIAN 352	Survey of Chinese Literature	3
ART HIST 350	19th Century Painting in Europe	3-4	E ASIAN 354	Survey of Japanese Literature	3
ART HIST 351	20th Century Art in Europe	3-4	E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4	ED POL 150	Education and Public Policy (Human Rights & Education)	3
ART HIST 357	European Architecture: The Nineteenth Century	3-4	ED POL 340	Comparative Education	3
ART HIST 358	European Architecture: The Modern Movements	3-4	ED POL/ ANTHRO 570	Anthropology and Education	3
ART HIST 371	Chinese Painting	3-4	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
ART HIST 372	Arts of Japan	3-4	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
ART HIST 411	Topics in Asian Art (Modern & Contemporary)	3-4	ENGL 352	Modernist Poetry	3
ART HIST 454	Art in Germany, 1900-1945	3-4	ENGL 353	British Literature since 1900	3
ART HIST 479	Art and History in Africa	3-4	ENGL 453	Topic in British Literature and Culture since 1900	3
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
C&E SOC/SOC 245	Technology and Society	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
C&E SOC/SOC/ URB R PL 617	Community Development	3	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
CHICLA/ HISTORY 462	The American West Since 1850	3-4	FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3	FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	FOLKLORE 510	Folklore Theory	3
COM ARTS 346	Critical Internet Studies	3	FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3
COM ARTS 350	Introduction to Film	3	FOLKLORE 560	Folklore in a Digital Age	3
COM ARTS 352	Film History to 1960	3	FRENCH 211	French Interdisciplinary Studies	3
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	FRENCH 240	Immigration and Expression	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	FRENCH 322	Introduction to Literature of Modernity	3
COM ARTS 455	French Film	3	FRENCH 325	Visual Culture in French/ Francophone Studies	3
COM ARTS 456	Russian and Soviet Film	3	FRENCH 348	Modernity Studies	3
COM ARTS 458	Global Media Cultures	3	FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
COM ARTS/ ITALIAN 460	Italian Film	3			
COM ARTS 470	Contemporary Political Discourse	3			
COM ARTS 557	Contemporary Media Industries	3			
COM ARTS 577	Dynamics of Online Relationships	3			
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3			

FRENCH 449	Francophone Modernity Studies	3	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GERMAN/ COM ARTS 655	German Film	3
FRENCH 465	French/Francophone Film	3	HIST SCI 339	Technology and Its Critics Since World War II	3
FRENCH 467	Aspects of Contemporary French Literature	3	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4
FRENCH 472	French/Francophone Literature and Women	3	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4
FRENCH 595	Theory and Practice of French/ Francophone Drama	4	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3
GEN&WS/ENGL 250	Women in Literature	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3	HISTORY 241	Latin America from 1780 to 1940	4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3	HISTORY 242	Modern Latin America, 1898 to the Present	4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEN&WS 420	Women in Cross-Societal Perspective	3	HISTORY 335	Korean History, 1945 to present	3-4
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GEOG 101	Introduction to Human Geography	4	HISTORY/ GEN&WS 392	Women in History	3-4
GEOG 301	Geography of Social Organization	3	HISTORY 403	Immigration and Assimilation in American History	3-4
GEOG/URB R PL 305	Introduction to the City	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
GEOG 340	World Regions in Global Context	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
GEOG 349	Europe	3	HISTORY 475	European Social History, 1914- Present	3-4
GEOG 355	Africa, South of the Sahara	3	HISTORY 503	Irish and Scottish Migrations	3
GEOG 358	Human Geography of Southeast Asia	3	HISTORY 514	European Cultural History Since 1870	3-4
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3	HISTORY 533	Multi-Racial Societies in Latin America	3-4
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water?)	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
GERMAN 278	Topics in German Culture (Culture in 20th Century)	3	INTL ST/ED POL 335	Globalization and Education	3
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3	INTL ST 603	Topics in Culture in the Age of Globalization	1-4
GERMAN 362	Topics in German Literature	3-4	INTL ST 620	Topics in International Studies	1-4
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
GERMAN 372	Topics in German Culture (Oesterreich: Landschaft)	3-4	ITALIAN 230	Modern Italian Culture	3
GERMAN 372	Topics in German Culture (Deutscher Film)	3-4			
GERMAN 372	Topics in German Culture (Green Germany)	3-4			
GERMAN 411	Kultur des 20. Jahrhunderts	3-4			
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4			

ITALIAN 322	Introduction to Italian Literature	3	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3	LITTRANS 211	Modern Indian Literatures in Translation	3
ITALIAN/ COM ARTS 460	Italian Film	3	LITTRANS 214	Literatures of Central Asia in Translation	3
ITALIAN 637	La Poesia del Novecento	3	LITTRANS 220	Chekhov in Translation	3-4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3	LITTRANS 222	Dostoevsky in Translation	3-4
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4	LITTRANS 240	Soviet Literature in Translation	3-4
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3	LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3	LITTRANS/ GEN&WS 270	German Women Writers in Translation	3
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3
JOURN 620	International Communication	4	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
JOURN 621	Mass Communication in Developing Nations	4	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3
L I S 201	The Information Society	4	LITTRANS 301	Modern Indonesian Literature in Translation	3
LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3	LITTRANS 304	Southeast Asian Literature in Translation	3
LCA 311	Modern Indian Literatures	3	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3	LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust)	3
LCA 361	Survey of Indonesian Cultures	3	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA/RELIG ST 402	Thought of Gandhi	3	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
LCA 403	Southeast Asian Literature	3	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LCA/ART HIST 428	Visual Cultures of South Asia	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LCA 441	Language and Society in Southeast Asia	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LCA 579	Fiction and Ethnography in Turkey	3	LITTRANS 368	Modern Japanese Fiction	3
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	LITTRANS 373	Topics in Japanese Literature (Evangelion)	3
LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3
LCA LANG 616	Modern Thai Literature: The Novel	3	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LCA LANG 617	Thai Poetry	3			
LCA LANG 618	Thai Prose Literature: The Short Story	3			
LCA LANG 654	Advanced Readings in Hindi Literature	3			
LCA LANG 677	Advanced Readings in Tibetan	3			
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4			
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4			
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4			

LITTRANS 473	Polish Literature (in Translation) since 1863	3	SLAVIC 405	Women in Russian Literature	3-4
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	SLAVIC 434	Contemporary Russian Culture	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3	SLAVIC 439	Russia Today in Literature and Film	4
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	SLAVIC 440	Soviet Literature	3-4
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3	SLAVIC 449	Istorija srpske i hrvatske literature	3
MUSIC 416	Survey of Music in the Twentieth Century	3	SLAVIC 454	Moderna srpska i hrvatska literatura	3
POLI SCI 363	Literature and Politics	3-4	SLAVIC 472	Historia literatury polskiej po roku 1863	3
PORTUG/ GEN&WS 450	Brazilian Women Writers	3	SOC 170	Population Problems	3-4
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3	SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3
PSYCH 528	Introduction to Cultural Psychology	3	SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	SOC 620	Comparative Racial Inequality	3
RELIG ST/ HISTORY 379	Islam in Iran	3	SOC/C&E SOC 623	Gender, Society, and Politics	3
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3	SOC 626	Social Movements	3
RELIG ST/ POLI SCI 618	Political Islam	3-4	SOC/LCA/ RELIG ST 634	Social Structure of India	3
SCAND ST 251	Readings in Norwegian Literature	3-4	SOC 640	Sociology of the Family	3
SCAND ST 261	Readings in Swedish Literature	3-4	SOC 646	Race and Ethnic Relations	3
SCAND ST 271	Readings in Danish Literature	3-4	SOC/ED POL 648	Sociology of Education	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SPANISH 324	Survey of Modern Spanish Literature	3
SCAND ST 420	The Woman in Scandinavian Literature	4	SPANISH 326	Survey of Spanish American Literature	3
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SPANISH 361	Spanish Civilization	3
SCAND ST 427	Contemporary Scandinavian Literature	4	SPANISH 363	Spanish American Civilization	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SPANISH 453	Literature of the Twentieth Century	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SCAND ST 437	Modern Scandinavian Drama	4	SPANISH 460	Literatura Hispanoamericana	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3
SCAND ST 466	Greenland - Past, Present, and Future	3	SPANISH 461	The Spanish American Short Story	3
SCAND ST 476	Scandinavian Life and Civilization II	4	SPANISH 462	Spanish American Theater and Drama	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3	SPANISH 463	The Spanish American Novel	3
SLAVIC 242	Literatures and Cultures of Eastern Europe	3	SPANISH 464	Spanish American Poetry and Essay	3
SLAVIC 302	Zarys historii literatury polskiej	3	SPANISH 465	Literature and Film in Spanish America	3
SLAVIC 321	Fourth Year Russian I	4	SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3
SLAVIC 322	Fourth Year Russian II	4	THEATRE 327	History of Costume for the Stage	3
SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	THEATRE 351	Fundamentals of Asian Stage Discipline	3
			THEATRE 420	Theatre and Society	3
			THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
			THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
			THEATRE 526	The Theatres of China and Japan	3
			THEATRE/ SLAVIC 532	History of Russian Theatre	3

THEATRE/ENGL 577 Postcolonial Theatre: Drama, Theory and Performance in the Global South 3

### Electives

Students typically take three or four elective courses in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Students must take enough elective credits to attain the required 35 total credits in the major. Choose from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN 303	African Literature and Visual Culture	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN/ FRENCH 440	African/Francophone Film	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 453	Modern African Literature in English	3-4
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
AFRICAN 500	Language and Society in Africa	3-4

AFRICAN 609	Advanced Topics in Global Black Music Studies	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER 265	African-American Autobiography	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER 271	Selected Topics in African American Culture	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2
AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFROAMER/ GEN&WS 333	Black Feminisms	3
AFROAMER 337	The Harlem Renaissance	3
AFROAMER 338	The Black Arts Movement	3

AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3	ANTHRO 327	Peoples of the Andes Today	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4	ANTHRO 330	Topics in Ethnology (SE Asia)	3-4
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3	ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3	ANTHRO 330	Topics in Ethnology (Brazil)	3-4
AFROAMER 469	Interdisciplinary Studies in the Arts	1-4	ANTHRO 350	Political Anthropology	3-4
AFROAMER 501	19th Century Afro-American Literature	3	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3	ANTHRO 358	Anthropology of China	3
AFROAMER/ POLI SCI 519	African American Political Theory	3-4	ANTHRO 365	Medical Anthropology	3
AFROAMER/HDFS/ SOC WORK 521	African American Families	3	ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	ANTHRO/LCA 462	Anthropology of South Asia	3
AFROAMER 525	Major Authors	3	ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3
AFROAMER/ ED POL 567	History of African American Education	3	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	ANTHRO 677	Public Monuments and Symbols	3
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3	ART HIST 350	19th Century Painting in Europe	3-4
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3	ART HIST 351	20th Century Art in Europe	3-4
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
AFROAMER 631	Colloquium in Afro-American History	3	ART HIST 357	European Architecture: The Nineteenth Century	3-4
AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3	ART HIST 358	European Architecture: The Modern Movements	3-4
AFROAMER 669	Interdisciplinary Studies in the Arts	1-4	ART HIST 371	Chinese Painting	3-4
AFROAMER 671	Selected Topics in Afro-American History	3	ART HIST 372	Arts of Japan	3-4
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4
AFROAMER 673	Selected Topics in Afro-American Society	3	ART HIST 454	Art in Germany, 1900-1945	3-4
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3	ART HIST 479	Art and History in Africa	3-4
AFROAMER 675	Selected Topics in Afro-American Culture	3	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3	ATM OCN 100	Weather and Climate	3
			ATM OCN 101	Weather and Climate	4
			ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
			ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
			ATM OCN/ ENVIR ST 520	Bioclimatology	3
			ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3
			ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
			BOTANY 240	Plants and Humans	3
			C&E SOC/SOC 245	Technology and Society	3

C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	ECON 467	International Industrial Organizations	3-4
C&E SOC/SOC/ URB R PL 617	Community Development	3	ECON 475	Economics of Growth	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4	ECON/A A E 567	Public Finance in Less Developed Countries	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3	ED POL 150	Education and Public Policy (Human Rights & Education)	3
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	ED POL/INTL ST 335	Globalization and Education	3
COM ARTS 346	Critical Internet Studies	3	ED POL 340	Comparative Education	3
COM ARTS 350	Introduction to Film	3	ED POL/ ANTHRO 570	Anthropology and Education	3
COM ARTS 352	Film History to 1960	3	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
COM ARTS 371	Communication and Conflict Resolution	3	ED POL 675	Introduction to Comparative and International Education	3
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
COM ARTS 455	French Film	3	ENGL 352	Modernist Poetry	3
COM ARTS 456	Russian and Soviet Film	3	ENGL 353	British Literature since 1900	3
COM ARTS 458	Global Media Cultures	3	ENGL 453	Topic in British Literature and Culture since 1900	3
COM ARTS/ ITALIAN 460	Italian Film	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
COM ARTS 470	Contemporary Political Discourse	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
COM ARTS 557	Contemporary Media Industries	3	ENVIR ST/ILS 126	Principles of Environmental Science	4
COM ARTS 577	Dynamics of Online Relationships	3	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
COMP LIT 375	Literature and Related Disciplines	3-4	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
COMP LIT 379	Literature and Ethnic Experience	3-4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
DS 639/ LAND ARC DS 639	Culture and Built Environment	3	ENVIR ST/BSE 367	Renewable Energy Systems	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3	ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3	ENVIR ST/N E 373	Nuclear Energy and the Environment	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
E ASIAN 352	Survey of Chinese Literature	3	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
E ASIAN 354	Survey of Japanese Literature	3			
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3			
ECON 330	Money and Banking	4			
ECON 364	Survey of International Economics	3-4			
ECON 464	International Trade and Finance	3-4			
ECON/HISTORY 466	The American Economy Since 1865	3-4			

ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
ENVIR ST 539	Air Resources Science and Policy	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3	GEN&WS 420	Women in Cross-Societal Perspective	3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3	GEN&WS 424	Women's International Human Rights	3
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
F&W ECOL 318	Principles of Wildlife Ecology	3	GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
F&W ECOL 410	Principles of Silviculture	3	GEN&WS/ URB R PL 644	International Development and Gender	3
F&W ECOL 450	Communities and Forests	3	GEOG 101	Introduction to Human Geography	4
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3	GEOG/ENVIR ST 120	Introduction to the Earth System	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	GEOG/ENVIR ST 127	Physical Systems of the Environment	5
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3	GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3	GEOG 301	Geography of Social Organization	3
FOLKLORE 510	Folklore Theory	3	GEOG/URB R PL 305	Introduction to the City	3-4
FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3	GEOG 318	Introduction to Geopolitics	3
FOLKLORE 560	Folklore in a Digital Age	3	GEOG 319	Environmental Evaluation and Adaptation	3
FRENCH 211	French Interdisciplinary Studies	3	GEOG 321	Climatology	3
FRENCH 240	Immigration and Expression	3	GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GEOG/BOTANY 338	Environmental Biogeography	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GEOG/ENVIR ST 339	Environmental Conservation	4
FRENCH 322	Introduction to Literature of Modernity	3	GEOG 340	World Regions in Global Context	3
FRENCH 325	Visual Culture in French/ Francophone Studies	3	GEOG 349	Europe	3
FRENCH 348	Modernity Studies	3	GEOG 355	Africa, South of the Sahara	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3	GEOG 358	Human Geography of Southeast Asia	3
FRENCH 449	Francophone Modernity Studies	3	GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
FRENCH 465	French/Francophone Film	3	GEOG 475	Topics in Geography	1-4
FRENCH 467	Aspects of Contemporary French Literature	3	GEOG/URB R PL 506	Historical Geography of European Urbanization	3
FRENCH 472	French/Francophone Literature and Women	3	GEOG 510	Economic Geography	4
FRENCH 595	Theory and Practice of French/ Francophone Drama	4	GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
GEN&WS/ENGL 250	Women in Literature	3	GEOG/ENVIR ST 537	Culture and Environment	4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3	GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
			GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4
			GEOSCI/ ENVIR ST 106	Environmental Geology	3



GEOSCI/ ENVR ST 410	Minerals as a Public Problem	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3
GEOSCI/ ENVR ST 411	Energy Resources	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3	HISTORY 241	Latin America from 1780 to 1940	4
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3	HISTORY 242	Modern Latin America, 1898 to the Present	4
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GERMAN 278	Topics in German Culture (Culture in 20th Century)	3	HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4	HISTORY 319	The Vietnam Wars	3-4
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3	HISTORY 335	Korean History, 1945 to present	3-4
GERMAN 325	Topics in Dutch Literature (lit.reizen,migratie)	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GERMAN 362	Topics in German Literature (Musik)	3-4	HISTORY 357	The Second World War	3-4
GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4	HISTORY/ GEN&WS 392	Women in History	3-4
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
GERMAN 372	Topics in German Culture (Oesterreich)	3-4	HISTORY 418	History of Russia	3-4
GERMAN 372	Topics in German Culture (Deutscher Film)	3-4	HISTORY 419	History of Soviet Russia	3-4
GERMAN 372	Topics in German Culture (Green Germany)	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
GERMAN 372	Topics in German Culture (China- German Point of View)	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
GERMAN/ COM ARTS 655	German Film	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HIST SCI 337	History of Technology	3	HISTORY 475	European Social History, 1914- Present	3-4
HIST SCI 339	Technology and Its Critics Since World War II	3	HISTORY 503	Irish and Scottish Migrations	3
HIST SCI/ ENVR ST 353	History of Ecology	3	HISTORY 514	European Cultural History Since 1870	3-4
HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4	HISTORY 533	Multi-Racial Societies in Latin America	3-4
HIST SCI/ENVR ST/ MED HIST 513	Environment and Health in Global Perspective	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	HORT 370	World Vegetable Crops	3
HISTORY 201	The Historian's Craft (various)	3-4	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4	INTL BUS 200	International Business	3
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4	INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4	INTL BUS/A A E/ ECON 462	Latin American Economic Development	3

INTL BUS 365	Contemporary Topics (International Perspectives)	1-3	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	3-4	ITALIAN/ COM ARTS 460	Italian Film	3
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3	ITALIAN 637	La Poesia del Novecento	3
INTL ST/ED POL 335	Globalization and Education	3	JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
INTL ST/A A E 373	Globalization, Poverty and Development	3	JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
INTL ST 401	Topics in Global Security	3-4	JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3
INTL ST 403	Topics in Culture in the Age of Globalization	3-4	JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
INTL ST 404	Topics in Global Environment	3-4	JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3	JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
INTL ST/ POLI SCI 431	Contentious Politics	3-4	JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	3	JOURN 618	Mass Communication and Political Behavior	4
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4	JOURN 620	International Communication	4
INTL ST 501	Study Abroad Topics in Global Security	1-6	JOURN 621	Mass Communication in Developing Nations	4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	L I S 201	The Information Society	4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6	L I S 661	Information Ethics and Policy	3
INTL ST 504	Study Abroad Topics in Global Environment	1-6	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4
INTL ST 520	Study Abroad Topics in International Studies	1-6	LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3
INTL ST 601	Topics in Global Security	1-4	LCA 311	Modern Indian Literatures	3
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	LCA/RELIG ST 357	Literatures of Muslim Societies	3
INTL ST 603	Topics in Culture in the Age of Globalization	1-4	LCA 361	Survey of Indonesian Cultures	3
INTL ST 604	Topics in Global Environment	1-4	LCA/RELIG ST 402	Thought of Gandhi	3
INTL ST 620	Topics in International Studies	1-4	LCA 403	Southeast Asian Literature	3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	LCA/ART HIST 428	Visual Cultures of South Asia	3
ITALIAN 230	Modern Italian Culture	3	LCA 441	Language and Society in Southeast Asia	3
ITALIAN 322	Introduction to Italian Literature	3	LCA/HISTORY 450	Making of Modern South Asia	3-4
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
			LCA 579	Fiction and Ethnography in Turkey	3
			LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3

LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA LANG 617	Thai Poetry	3	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
LCA LANG 618	Thai Prose Literature: The Short Story	3	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LCA LANG 654	Advanced Readings in Hindi Literature	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LCA LANG 677	Advanced Readings in Tibetan	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LEGAL ST 409	Human Rights in Law and Society	3	LITTRANS 368	Modern Japanese Fiction	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3	LITTRANS 373	Topics in Japanese Literature (Evangelion)	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4	LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LITTRANS 211	Modern Indian Literatures in Translation	3	MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
LITTRANS 214	Literatures of Central Asia in Translation	3	MED HIST 526	Medical Technology and the Body	3
LITTRANS 220	Chekhov in Translation	3-4	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3
LITTRANS 222	Dostoevsky in Translation	3-4	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
LITTRANS 224	Tolstoy in Translation	3-4	MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
LITTRANS 240	Soviet Literature in Translation	3-4	MUSIC 416	Survey of Music in the Twentieth Century	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3	PHILOS 555	Political Philosophy	3
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3	PHILOS 557	Issues in Social Philosophy	3
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3
LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3	POLI SCI 266	The Development of Modern Western Political Thought	3-4
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	POLI SCI 313	Bargaining in the Global Economy	3-4
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
LITTRANS 301	Modern Indonesian Literature in Translation	3	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
LITTRANS 304	Southeast Asian Literature in Translation	3	POLI SCI 333	International Politics of the Middle East	3-4
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3	POLI SCI 340	The European Union: Politics and Political Economy	3-4

POLI SCI 346	China in World Politics	3-4	RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4
POLI SCI 347	Terrorism	3	RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
POLI SCI 350	International Political Economy	3-4	RELIG ST/ POLI SCI 618	Political Islam	3-4
POLI SCI 351	Politics of the World Economy	3-4	SCAND ST 251	Readings in Norwegian Literature	3-4
POLI SCI 353	The Third World in the International System	3-4	SCAND ST 261	Readings in Swedish Literature	3-4
POLI SCI 354	International Institutions and World Order	3-4	SCAND ST 271	Readings in Danish Literature	3-4
POLI SCI 356	Principles of International Law	3-4	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
POLI SCI 359	American Foreign Policy	3-4	SCAND ST 420	The Woman in Scandinavian Literature	4
POLI SCI 363	Literature and Politics	3-4	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
POLI SCI 377	Nuclear Weapons and World Politics	3-4	SCAND ST 427	Contemporary Scandinavian Literature	4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
POLI SCI 421	The Challenge of Democratization	3-4	SCAND ST 437	Modern Scandinavian Drama	4
POLI SCI/ INTL ST 431	Contentious Politics	3-4	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
POLI SCI 432	Comparative Legal Institutions	3-4	SCAND ST 466	Greenland - Past, Present, and Future	3
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4	SCAND ST 476	Scandinavian Life and Civilization II	4
POLI SCI 438	Comparative Political Culture	3-4	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
POLI SCI 460	Topics in Political Philosophy ((Economic Inequality))	3-4	SLAVIC 242	Literatures and Cultures of Eastern Europe	3
POLI SCI 534	Socialism and Transitions to the Market	3-4	SLAVIC 302	Zarys historii literatury polskiej	3
POLI SCI 561	Radical Political Theory	3-4	SLAVIC 321	Fourth Year Russian I	4
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3	SLAVIC 322	Fourth Year Russian II	4
POLI SCI 637	Comparative Political Economy	3-4	SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
POLI SCI 652	The Politics of Development	3-4	SLAVIC 405	Women in Russian Literature	3-4
POLI SCI 654	Politics of Revolution	3-4	SLAVIC 420	Chekhov	3-4
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4	SLAVIC 434	Contemporary Russian Culture	3
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4	SLAVIC 439	Russia Today in Literature and Film	4
PORTUG/ GEN&WS 450	Brazilian Women Writers	3	SLAVIC 440	Soviet Literature	3-4
PORTUG 467	Survey of Portuguese Literature since 1825	3	SLAVIC 449	Istorija srpske i hrvatske literature	3
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3	SLAVIC 454	Moderna srpska i hrvatska literatura	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3	SLAVIC 472	Historia literatury polskiej po roku 1863	3
PSYCH 528	Introduction to Cultural Psychology	3	SOC 170	Population Problems	3-4
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	SOC 225	Contemporary Chinese Society	3
RELIG ST/ HISTORY 379	Islam in Iran	3	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
			SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3
			SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3

SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3	THEATRE 351	Fundamentals of Asian Stage Discipline	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3	THEATRE 420	Theatre and Society	3
SOC 620	Comparative Racial Inequality	3	THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
SOC/C&E SOC 623	Gender, Society, and Politics	3	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
SOC 626	Social Movements	3	THEATRE 526	The Theatres of China and Japan	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3	THEATRE/ SLAVIC 532	History of Russian Theatre	3
SOC 632	Sociology of Organizations	3-4	THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
SOC 633	Social Stratification	3	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3
SOC/LCA/ RELIG ST 634	Social Structure of India	3	ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3
SOC 640	Sociology of the Family	3	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
SOC 646	Race and Ethnic Relations	3	ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
SOC/ED POL 648	Sociology of Education	3	ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
SOC/C&E SOC 649	Sociology of Work and Employment	3	ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3	ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3
SOC/ECON 663	Population and Society	3	<b>GLOBAL SECURITY</b>		
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3	In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.		
SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3	<b>Global Security Core</b>		
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3	Two courses from:		
SPANISH 324	Survey of Modern Spanish Literature	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
SPANISH 326	Survey of Spanish American Literature	3	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
SPANISH/ INTL BUS 329	Spanish for Business	3	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
SPANISH 361	Spanish Civilization	3	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
SPANISH 363	Spanish American Civilization	3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
SPANISH 453	Literature of the Twentieth Century	3	INTL ST 401	Topics in Global Security	3-4
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3	INTL ST/ POLI SCI 431	Contentious Politics	3-4
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3	INTL ST 501	Study Abroad Topics in Global Security	1-6
SPANISH 461	The Spanish American Short Story	3	INTL ST 601	Topics in Global Security	1-4
SPANISH 462	Spanish American Theater and Drama	3			
SPANISH 463	The Spanish American Novel	3			
SPANISH 464	Spanish American Poetry and Essay	3			
SPANISH 465	Literature and Film in Spanish America	3			
SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3			
SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3			
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3			
THEATRE 327	History of Costume for the Stage	3			

LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	ECON 467	International Industrial Organizations	3-4
PHILOS 555	Political Philosophy	3	ED POL 150	Education and Public Policy (Human Rights & Education)	3
PHILOS 557	Issues in Social Philosophy	3	ED POL 340	Comparative Education	3
POLI SCI 343	Theories of International Security	3-4	ENVIR ST/GEORG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
POLI SCI 353	The Third World in the International System	3-4	ENVIR ST/ATM OCN/GEOG 332	Global Warming: Science and Impacts	3
POLI SCI 354	International Institutions and World Order	3-4	ENVIR ST/F&W ECOL 515	Natural Resources Policy	3
POLI SCI 359	American Foreign Policy	3-4	ENVIR ST/SOIL SCI 575	Assessment of Environmental Impact	3
POLI SCI 377	Nuclear Weapons and World Politics	3-4	ENVIR ST/A A E/ECON/URB R PL 671	Energy Economics	3
POLI SCI 421	The Challenge of Democratization	3-4	F&W ECOL/ENVIR ST/HISTORY 452	World Forest History	3
POLI SCI/INTL ST 439	The Comparative Study of Genocide	3-4	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
POLI SCI 508	American National Security: Policy and Process	3-4	GEN&WS 424	Women's International Human Rights	3
POLI SCI 654	Politics of Revolution	3-4	GEN&WS/POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
SOC 626	Social Movements	3	GEORG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
<b>Global Security Issues</b>			GEORG 318	Introduction to Geopolitics	3
15 credits from:			GEORG/ENVIR ST 339	Environmental Conservation	4
<b>Code</b>	<b>Title</b>	<b>Credits</b>	GEORG 340	World Regions in Global Context	3
A A E/ENVIR ST 244	The Environment and the Global Economy	3	GEORG 349	Europe	3
A A E/AGRONOMY/INTER-AG/NUTR SCI 350	World Hunger and Malnutrition	3	GEORG 355	Africa, South of the Sahara	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3	GEORG 358	Human Geography of Southeast Asia	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3	GEORG/URB R PL 506	Historical Geography of European Urbanization	3
ANTHRO 330	Topics in Ethnology	3-4	GEOSCI/ENVIR ST 411	Energy Resources	3
ANTHRO 365	Medical Anthropology	3	HIST SCI 337	History of Technology	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3	HIST SCI 339	Technology and Its Critics Since World War II	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4	HIST SCI/ENVIR ST 353	History of Ecology	3
C&E SOC/ENVIR ST/SOC 540	Sociology of International Development, Environment, and Sustainability	3	HIST SCI/HISTORY/MED HIST 508	Health, Disease and Healing II	3-4
CHICLA/HISTORY 462	The American West Since 1850	3-4	HIST SCI/MED HIST/POP HLTH 553	International Health and Global Society	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3	HISTORY 201	The Historian's Craft (The Catholic Church)	3-4
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3	HISTORY 201	The Historian's Craft (WWII Eastern Europe)	3-4
COM ARTS 371	Communication and Conflict Resolution	3	HISTORY 201	The Historian's Craft (Dems & Dictators in Spain & Italy)	3-4
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	HISTORY 201	The Historian's Craft (Shanghai)	3-4
COM ARTS/RELIG ST 374	The Rhetoric of Religion	3			
COM ARTS 470	Contemporary Political Discourse	3			
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3			

HISTORY 201	The Historian's Craft (How do Empires End?)	3-4	LCA 300	Topics in Languages and Cultures of Asia (Gender and Sexuality in)	3
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4	LCA/HISTORY 450	Making of Modern South Asia	3-4
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4	LEGAL ST 409	Human Rights in Law and Society	3
HISTORY 223	Explorations in European History (H) (War, Religion, & Race)	3-4	LEGAL ST/L I S 663	Introduction to Cyberlaw	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3
HISTORY 319	The Vietnam Wars	3-4	LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust. )	3
HISTORY 335	Korean History, 1945 to present	3-4	MED HIST 526	Medical Technology and the Body	3
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3
HISTORY 357	The Second World War	3-4	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
HISTORY 418	History of Russia	3-4	PHILOS 555	Political Philosophy	3
HISTORY 419	History of Soviet Russia	3-4	PHILOS 557	Issues in Social Philosophy	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4	POLI SCI 266	The Development of Modern Western Political Thought	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	POLI SCI 333	International Politics of the Middle East	3-4
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	POLI SCI 334	Russian Politics	3-4
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4	POLI SCI 340	The European Union: Politics and Political Economy	3-4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	POLI SCI 343	Theories of International Security	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	POLI SCI 345	Conflict Resolution	3-4
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Political Economy & Liberal)	3	POLI SCI 346	China in World Politics	3-4
INTL BUS/A A E/ ECON 462	Latin American Economic Development	3	POLI SCI 347	Terrorism	3
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4	POLI SCI 348	Analysis of International Relations	3-4
INTL ST/ED POL 335	Globalization and Education	3	POLI SCI 353	The Third World in the International System	3-4
INTL ST 401	Topics in Global Security	3-4	POLI SCI 354	International Institutions and World Order	3-4
INTL ST/ POLI SCI 431	Contentious Politics	3-4	POLI SCI 356	Principles of International Law	3-4
INTL ST 501	Study Abroad Topics in Global Security	1-6	POLI SCI 359	American Foreign Policy	3-4
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
INTL ST 601	Topics in Global Security	1-4	POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	POLI SCI 401	Selected Topics in Political Science (Nationalism & Ethnic Conflict)	3-4
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	POLI SCI 421	The Challenge of Democratization	3-4
JOURN 618	Mass Communication and Political Behavior	4	POLI SCI 432	Comparative Legal Institutions	3-4
JOURN 621	Mass Communication in Developing Nations	4	POLI SCI 438	Comparative Political Culture	3-4
			POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
			POLI SCI 455	African International Relations	3-4
			POLI SCI 508	American National Security: Policy and Process	3-4
			POLI SCI 529	Arab-Israeli Conflict	3-4
			POLI SCI 561	Radical Political Theory	3-4
			POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3

POLI SCI 637	Comparative Political Economy	3-4	AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
POLI SCI 654	Politics of Revolution	3-4	AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4	AFRICAN 412	Contemporary African Fiction	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4	AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3	AFRICAN/ FOLKLORE 411	African Poetry	3-4
RELIG ST/ POLI SCI 618	Political Islam	3-4	AFRICAN/ FRENCH 440	African/Francophone Film	3
SOC 225	Contemporary Chinese Society	3	AFRICAN/ PORTUG 451	Lusophone African Literature	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3	AFRICAN 453	Modern African Literature in English	3-4
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3	AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
SOC 620	Comparative Racial Inequality	3	AFRICAN 500	Language and Society in Africa	3-4
SOC 626	Social Movements	3	AFRICAN 609	Advanced Topics in Global Black Music Studies	3
SOC/ECON 663	Population and Society	3	AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
<b>Electives</b>			AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
Students typically take three or four elective courses in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Students must take enough elective credits to attain the required 35 total credits in the major. Choose from:			AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
<b>Code</b>	<b>Title</b>	<b>Credits</b>	AFROAMER 265	African-American Autobiography	3
A A E/ENVIR ST 244	The Environment and the Global Economy	3	AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
A A E 319	The International Agricultural Economy	3	AFROAMER 271	Selected Topics in African American Culture	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3	AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
A A E/ECON 421	Economic Decision Analysis	4	AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3	AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
A A E/ECON 474	Economic Problems of Developing Areas	3	AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
A A E/ECON 477	Agricultural and Economic Development in Africa	3	AFROAMER 302	Undergraduate Studies in Afro- American History	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3	AFROAMER 303	Blacks, Film, and Society	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3	AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3	AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFRICAN 230	Introduction to Yoruba Life and Culture	3	AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2
AFRICAN 300	African Literature in Translation	3			
AFRICAN 303	African Literature and Visual Culture	3			



AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4	AFROAMER 669	Interdisciplinary Studies in the Arts	1-4
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4	AFROAMER 671	Selected Topics in Afro-American History	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3	AFROAMER 673	Selected Topics in Afro-American Society	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3	AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3
AFROAMER/ GEN&WS 333	Black Feminisms	3	AFROAMER 675	Selected Topics in Afro-American Culture	3
AFROAMER 337	The Harlem Renaissance	3	AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3
AFROAMER 338	The Black Arts Movement	3	AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	ANTHRO 327	Peoples of the Andes Today	3
AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3	ANTHRO 330	Topics in Ethnology (SE Asia)	3-4
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4	ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3	ANTHRO 330	Topics in Ethnology (Brazil)	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3	ANTHRO 350	Political Anthropology	3-4
AFROAMER 469	Interdisciplinary Studies in the Arts	1-4	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
AFROAMER 501	19th Century Afro-American Literature	3	ANTHRO 358	Anthropology of China	3
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3	ANTHRO 365	Medical Anthropology	3
AFROAMER/ POLI SCI 519	African American Political Theory	3-4	ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
AFROAMER/HDFS/ SOC WORK 521	African American Families	3	ANTHRO/LCA 462	Anthropology of South Asia	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3
AFROAMER 525	Major Authors	3	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
AFROAMER/ ED POL 567	History of African American Education	3	ANTHRO 677	Public Monuments and Symbols	3
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	ART HIST 350	19th Century Painting in Europe	3-4
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3	ART HIST 351	20th Century Art in Europe	3-4
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	ART HIST 357	European Architecture: The Nineteenth Century	3-4
AFROAMER 631	Colloquium in Afro-American History	3	ART HIST 358	European Architecture: The Modern Movements	3-4
			ART HIST 371	Chinese Painting	3-4
			ART HIST 372	Arts of Japan	3-4
			ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4
			ART HIST 454	Art in Germany, 1900-1945	3-4
			ART HIST 479	Art and History in Africa	3-4
			ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3

ATM OCN 100	Weather and Climate	3	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3
ATM OCN 101	Weather and Climate	4	E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2	E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3	E ASIAN 253	Introduction to Japanese Culture and Civilization	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3	E ASIAN 352	Survey of Chinese Literature	3
ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3	E ASIAN 354	Survey of Japanese Literature	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3	E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
BOTANY 240	Plants and Humans	3	ECON 330	Money and Banking	4
C&E SOC/SOC 245	Technology and Society	3	ECON 364	Survey of International Economics	3-4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	ECON 464	International Trade and Finance	3-4
C&E SOC/SOC/ URB R PL 617	Community Development	3	ECON/HISTORY 466	The American Economy Since 1865	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4	ECON 467	International Industrial Organizations	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3	ECON 475	Economics of Growth	3-4
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	ECON/A A E 567	Public Finance in Less Developed Countries	3
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3	ED POL 150	Education and Public Policy (Human Rights & Education)	3
COM ARTS 346	Critical Internet Studies	3	ED POL/INTL ST 335	Globalization and Education	3
COM ARTS 350	Introduction to Film	3	ED POL 340	Comparative Education	3
COM ARTS 352	Film History to 1960	3	ED POL/ ANTHRO 570	Anthropology and Education	3
COM ARTS 371	Communication and Conflict Resolution	3	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	ED POL 675	Introduction to Comparative and International Education	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3
COM ARTS 455	French Film	3	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
COM ARTS 456	Russian and Soviet Film	3	ENGL 352	Modernist Poetry	3
COM ARTS 458	Global Media Cultures	3	ENGL 353	British Literature since 1900	3
COM ARTS/ ITALIAN 460	Italian Film	3	ENGL 453	Topic in British Literature and Culture since 1900	3
COM ARTS 470	Contemporary Political Discourse	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
COM ARTS 557	Contemporary Media Industries	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
COM ARTS 577	Dynamics of Online Relationships	3	ENVIR ST/ILS 126	Principles of Environmental Science	4
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
COMP LIT 375	Literature and Related Disciplines	3-4	ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
COMP LIT 379	Literature and Ethnic Experience	3-4	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
DS 639/ LAND ARC DS 639	Culture and Built Environment	3	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3	ENVIR ST/BSE 367	Renewable Energy Systems	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3			

ENVIR ST/ M&ENVTX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2	FRENCH 433	Readings in Twentieth and Twenty- First Century Literature	3
ENVIR ST/N E 373	Nuclear Energy and the Environment	3	FRENCH 449	Francophone Modernity Studies	3
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4	FRENCH 465	French/Francophone Film	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4	FRENCH 467	Aspects of Contemporary French Literature	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3	FRENCH 472	French/Francophone Literature and Women	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	FRENCH 595	Theory and Practice of French/ Francophone Drama	4
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	GEN&WS/ENGL 250	Women in Literature	3
ENVIR ST 539	Air Resources Science and Policy	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
F&W ECOL 318	Principles of Wildlife Ecology	3	GEN&WS 420	Women in Cross-Societal Perspective	3
F&W ECOL 410	Principles of Silviculture	3	GEN&WS 424	Women's International Human Rights	3
F&W ECOL 450	Communities and Forests	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3	GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	GEN&WS/ URB R PL 644	International Development and Gender	3
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3	GEOG 101	Introduction to Human Geography	4
FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3	GEOG/ENVIR ST 120	Introduction to the Earth System	3
FOLKLORE 510	Folklore Theory	3	GEOG/ENVIR ST 127	Physical Systems of the Environment	5
FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3	GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
FOLKLORE 560	Folklore in a Digital Age	3	GEOG 301	Geography of Social Organization	3
FRENCH 211	French Interdisciplinary Studies	3	GEOG/URB R PL 305	Introduction to the City	3-4
FRENCH 240	Immigration and Expression	3	GEOG 318	Introduction to Geopolitics	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GEOG 319	Environmental Evaluation and Adaptation	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GEOG 321	Climatology	3
FRENCH 322	Introduction to Literature of Modernity	3	GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
FRENCH 325	Visual Culture in French/ Francophone Studies	3	GEOG/BOTANY 338	Environmental Biogeography	3
FRENCH 348	Modernity Studies	3	GEOG/ENVIR ST 339	Environmental Conservation	4
			GEOG 340	World Regions in Global Context	3
			GEOG 349	Europe	3
			GEOG 355	Africa, South of the Sahara	3
			GEOG 358	Human Geography of Southeast Asia	3
			GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3

GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4	HIST SCI 339	Technology and Its Critics Since World War II	3
GEOG 475	Topics in Geography	1-4	HIST SCI/ ENVIR ST 353	History of Ecology	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3	HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4
GEOG 510	Economic Geography	4	HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
GEOG/ENVIR ST 537	Culture and Environment	4	HISTORY 201	The Historian's Craft (various)	3-4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4
GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4
GEOSCI/ ENVIR ST 106	Environmental Geology	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3
GEOSCI/ ENVIR ST 411	Energy Resources	3	HISTORY 241	Latin America from 1780 to 1940	4
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3	HISTORY 242	Modern Latin America, 1898 to the Present	4
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3	HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
GERMAN 278	Topics in German Culture (Culture in 20th Century)	3	HISTORY 319	The Vietnam Wars	3-4
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4	HISTORY 335	Korean History, 1945 to present	3-4
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3	HISTORY 357	The Second World War	3-4
GERMAN 362	Topics in German Literature (Musik)	3-4	HISTORY/ GEN&WS 392	Women in History	3-4
GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4	HISTORY 418	History of Russia	3-4
GERMAN 372	Topics in German Culture (Oesterreich)	3-4	HISTORY 419	History of Soviet Russia	3-4
GERMAN 372	Topics in German Culture (Deutscher Film)	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
GERMAN 372	Topics in German Culture (Green Germany)	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
GERMAN 372	Topics in German Culture (China- German Point of View)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
GERMAN/ COM ARTS 655	German Film	3	HISTORY 475	European Social History, 1914- Present	3-4
HIST SCI 337	History of Technology	3			

HISTORY 503	Irish and Scottish Migrations	3	INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4
HISTORY 514	European Cultural History Since 1870	3-4	INTL ST 603	Topics in Culture in the Age of Globalization	1-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4	INTL ST 604	Topics in Global Environment	1-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	INTL ST 620	Topics in International Studies	1-4
HORT 370	World Vegetable Crops	3	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3	ITALIAN 230	Modern Italian Culture	3
INTL BUS 200	International Business	3	ITALIAN 322	Introduction to Italian Literature	3
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3
INTL BUS/A A E/ ECON 462	Latin American Economic Development	3	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3
INTL BUS 365	Contemporary Topics (International Perspectives)	1-3	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4	ITALIAN/ COM ARTS 460	Italian Film	3
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3	ITALIAN 637	La Poesia del Novecento	3
INTL ST/ED POL 335	Globalization and Education	3	JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
INTL ST/A A E 373	Globalization, Poverty and Development	3	JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
INTL ST 401	Topics in Global Security	3-4	JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3
INTL ST 403	Topics in Culture in the Age of Globalization	3-4	JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
INTL ST 404	Topics in Global Environment	3-4	JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3	JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
INTL ST/ POLI SCI 431	Contentious Politics	3-4	JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4	JOURN 618	Mass Communication and Political Behavior	4
INTL ST 501	Study Abroad Topics in Global Security	1-6	JOURN 620	International Communication	4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	JOURN 621	Mass Communication in Developing Nations	4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6	L I S 201	The Information Society	4
INTL ST 504	Study Abroad Topics in Global Environment	1-6	L I S 661	Information Ethics and Policy	3
INTL ST 520	Study Abroad Topics in International Studies	1-6	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3
INTL ST 601	Topics in Global Security	1-4	LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3
			LCA 311	Modern Indian Literatures	3
			LCA/RELIG ST 357	Literatures of Muslim Societies	3

LCA 361	Survey of Indonesian Cultures	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
LCA/RELIG ST 402	Thought of Gandhi	3	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3
LCA 403	Southeast Asian Literature	3	LITTRANS 301	Modern Indonesian Literature in Translation	3
LCA/ART HIST 428	Visual Cultures of South Asia	3	LITTRANS 304	Southeast Asian Literature in Translation	3
LCA 441	Language and Society in Southeast Asia	3	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3
LCA/HISTORY 450	Making of Modern South Asia	3-4	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
LCA 579	Fiction and Ethnography in Turkey	3	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LCA LANG 617	Thai Poetry	3	LITTRANS 368	Modern Japanese Fiction	3
LCA LANG 618	Thai Prose Literature: The Short Story	3	LITTRANS 373	Topics in Japanese Literature (Evangelion)	3
LCA LANG 654	Advanced Readings in Hindi Literature	3	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3
LCA LANG 677	Advanced Readings in Tibetan	3	LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3
LEGAL ST 409	Human Rights in Law and Society	3	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4	MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4	MED HIST 526	Medical Technology and the Body	3
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
LITTRANS 211	Modern Indian Literatures in Translation	3	MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
LITTRANS 214	Literatures of Central Asia in Translation	3	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
LITTRANS 220	Chekhov in Translation	3-4	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
LITTRANS 222	Dostoevsky in Translation	3-4	MUSIC 416	Survey of Music in the Twentieth Century	3
LITTRANS 224	Tolstoy in Translation	3-4	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	PHILOS 555	Political Philosophy	3
LITTRANS 240	Soviet Literature in Translation	3-4	PHILOS 557	Issues in Social Philosophy	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3			
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3			
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3			
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3			
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3			
LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3			

PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
POLI SCI 313	Bargaining in the Global Economy	3-4	PSYCH 528	Introduction to Cultural Psychology	3
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4	RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3	RELIG ST/ HISTORY 379	Islam in Iran	3
POLI SCI 333	International Politics of the Middle East	3-4	RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4	RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4
POLI SCI 346	China in World Politics	3-4	RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
POLI SCI 347	Terrorism	3	RELIG ST/ POLI SCI 618	Political Islam	3-4
POLI SCI 348	Analysis of International Relations	3-4	SCAND ST 251	Readings in Norwegian Literature	3-4
POLI SCI 350	International Political Economy	3-4	SCAND ST 261	Readings in Swedish Literature	3-4
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POLI SCI 353	The Third World in the International System	3-4	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
POLI SCI 354	International Institutions and World Order	3-4	SCAND ST 420	The Woman in Scandinavian Literature	4
POLI SCI 356	Principles of International Law	3-4	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
POLI SCI 359	American Foreign Policy	3-4	SCAND ST 427	Contemporary Scandinavian Literature	4
POLI SCI 363	Literature and Politics	3-4	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
POLI SCI 377	Nuclear Weapons and World Politics	3-4	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4	SCAND ST 437	Modern Scandinavian Drama	4
POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
POLI SCI/ INTL ST 431	Contentious Politics	3-4	SCAND ST 466	Greenland - Past, Present, and Future	3
POLI SCI 432	Comparative Legal Institutions	3-4	SCAND ST 476	Scandinavian Life and Civilization II	4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
POLI SCI 438	Comparative Political Culture	3-4	SLAVIC 242	Literatures and Cultures of Eastern Europe	3
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4	SLAVIC 302	Zarys historii literatury polskiej	3
POLI SCI 455	African International Relations	3-4	SLAVIC 321	Fourth Year Russian I	4
POLI SCI 529	Arab-Israeli Conflict	3-4	SLAVIC 322	Fourth Year Russian II	4
POLI SCI 538	Politics and Policies in the European Union	3-4	SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3	SLAVIC 405	Women in Russian Literature	3-4
POLI SCI 652	The Politics of Development	3-4	SLAVIC 420	Chekhov	3-4
POLI SCI 654	Politics of Revolution	3-4	SLAVIC 434	Contemporary Russian Culture	3
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4	SLAVIC 439	Russia Today in Literature and Film	4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4	SLAVIC 440	Soviet Literature	3-4
PORTUG/ GEN&WS 450	Brazilian Women Writers	3	SLAVIC 449	Istorija srpske i hrvatske literature	3
PORTUG 467	Survey of Portuguese Literature since 1825	3	SLAVIC 454	Moderna srpska i hrvatska literatura	3
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3	SLAVIC 472	Historia literatury polskiej po roku 1863	3

SOC 170	Population Problems	3-4	SPANISH 465	Literature and Film in Spanish America	3
SOC 225	Contemporary Chinese Society	3	SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3	SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3	SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3
SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3	THEATRE 327	History of Costume for the Stage	3
SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3	THEATRE 351	Fundamentals of Asian Stage Discipline	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3	THEATRE 420	Theatre and Society	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3	THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
SOC 620	Comparative Racial Inequality	3	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
SOC/C&E SOC 623	Gender, Society, and Politics	3	THEATRE 526	The Theatres of China and Japan	3
SOC 626	Social Movements	3	THEATRE/ SLAVIC 532	History of Russian Theatre	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3	THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
SOC 632	Sociology of Organizations	3-4	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3
SOC 633	Social Stratification	3	ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3
SOC/LCA/ RELIG ST 634	Social Structure of India	3	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
SOC 640	Sociology of the Family	3	ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
SOC 646	Race and Ethnic Relations	3	ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
SOC/ED POL 648	Sociology of Education	3	ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
SOC/C&E SOC 649	Sociology of Work and Employment	3	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3	ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3			
SOC/ECON 663	Population and Society	3			
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3			
SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3			
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3			
SPANISH 324	Survey of Modern Spanish Literature	3			
SPANISH 326	Survey of Spanish American Literature	3			
SPANISH/ INTL BUS 329	Spanish for Business	3			
SPANISH 361	Spanish Civilization	3			
SPANISH 363	Spanish American Civilization	3			
SPANISH 453	Literature of the Twentieth Century	3			
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3			
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3			
SPANISH 461	The Spanish American Short Story	3			
SPANISH 462	Spanish American Theater and Drama	3			
SPANISH 463	The Spanish American Novel	3			
SPANISH 464	Spanish American Poetry and Essay	3			

## POLITICS AND POLICY IN THE GLOBAL ECONOMY

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

### Politics and Policy Core

Two courses from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3



A A E/ECON 474	Economic Problems of Developing Areas	3	A A E/ECON 477	Agricultural and Economic Development in Africa	3
ECON 364	Survey of International Economics	3-4	A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3
ECON 464	International Trade and Finance	3-4	A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3
ECON 475	Economics of Growth	3-4	A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3	ANTHRO 330	Topics in Ethnology (Culture/Health in Africa)	3-4
GEN&WS/ URB R PL 644	International Development and Gender	3	ANTHRO 365	Medical Anthropology	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3
INTL ST/A A E 373	Globalization, Poverty and Development	3	C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	C&E SOC/SOC/ URB R PL 617	Community Development	3
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4	CHICLA/ POLI SCI 302	Mexican-American Politics	3-4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
INTL ST 601	Topics in Global Security (Intl Sec & Global Sys)	1-4	COM ARTS 470	Contemporary Political Discourse	3
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	E A STDS 301	Social Studies Topics in East Asian Studies (Contemporary Chinese Society)	1-3
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	ECON 330	Money and Banking	4
POLI SCI 313	Bargaining in the Global Economy	3-4	ECON 364	Survey of International Economics	3-4
POLI SCI 350	International Political Economy	3-4	ECON 464	International Trade and Finance	3-4
POLI SCI 351	Politics of the World Economy	3-4	ECON/HISTORY 466	The American Economy Since 1865	3-4
POLI SCI 354	International Institutions and World Order	3-4	ECON 467	International Industrial Organizations	3-4
POLI SCI 637	Comparative Political Economy	3-4	ECON 475	Economics of Growth	3-4
POLI SCI 652	The Politics of Development	3-4	ECON/A A E 567	Public Finance in Less Developed Countries	3
POLI SCI 654	Politics of Revolution	3-4	ED POL 150	Education and Public Policy (Human Rights & Education)	3
POLI SCI 637	Comparative Political Economy	3-4	ED POL/INTL ST 335	Globalization and Education	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3	ED POL 340	Comparative Education	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
URB R PL/ GEN&WS 644	International Development and Gender	3	ED POL 675	Introduction to Comparative and International Education	3
			ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3
			ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
			ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
			ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
			ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3

### Politics and Policy Issues

15 credits from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3

ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Poli Econ & Liberal)	3
GEN BUS 600	Topics on Sustainable Business Practices	3	INTL BUS 200	International Business	3
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3	INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3	INTL BUS 365	Contemporary Topics	1-3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
GEN&WS/ URB R PL 644	International Development and Gender	3	INTL ST/ED POL 335	Globalization and Education	3
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	INTL ST/A A E 373	Globalization, Poverty and Development	3
GEOG 302	Economic Geography: Locational Behavior	4	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
GEOG 318	Introduction to Geopolitics	3	INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
GEOG 319	Environmental Evaluation and Adaptation	3	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
GEOG/ENVIR ST 339	Environmental Conservation	4	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3
GEOG 340	World Regions in Global Context	3	INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4
GEOG 349	Europe	3	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
GEOG 355	Africa, South of the Sahara	3	JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
GEOG 358	Human Geography of Southeast Asia	3	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3	JOURN 618	Mass Communication and Political Behavior	4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3	JOURN 620	International Communication	4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3	JOURN 621	Mass Communication in Developing Nations	4
GEOSCI/ ENVIR ST 411	Energy Resources	3	L I S 661	Information Ethics and Policy	3
HIST SCI 337	History of Technology	3	LCA/HISTORY 450	Making of Modern South Asia	3-4
HIST SCI 339	Technology and Its Critics Since World War II	3	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	LEGAL ST/L I S 663	Introduction to Cyberlaw	3
HISTORY 201	The Historian's Craft (Shanghai Life and Crime)	3-4	MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
HISTORY 201	The Historian's Craft (The Catholic Church)	3-4	MED HIST 526	Medical Technology and the Body	3
HISTORY 201	The Historian's Craft (UW-Latin Amer Relations)	3-4	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
HISTORY 335	Korean History, 1945 to present	3-4	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
HISTORY/ GEN&WS 392	Women in History	3-4	PHILOS 555	Political Philosophy	3
HISTORY 419	History of Soviet Russia	3-4	POLI SCI 266	The Development of Modern Western Political Thought	3-4
			POLI SCI 313	Bargaining in the Global Economy	3-4

POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 377	Nuclear Weapons and World Politics	3-4
POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
POLI SCI 401	Selected Topics in Political Science (Political Economy)	3-4
POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI 460	Topics in Political Philosophy (Economic Inequality)	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 652	The Politics of Development	3-4
POLI SCI 654	Politics of Revolution	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Pol Sci: CmpartvPo)	1-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Comparative Politics)	1-4
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
RELIG ST/ POLI SCI 618	Political Islam	3-4
SCAND ST 476	Scandinavian Life and Civilization II	4
SOC 225	Contemporary Chinese Society	3
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 620	Comparative Racial Inequality	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC/C&E SOC 649	Sociology of Work and Employment	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/ECON 663	Population and Society	3
SPANISH/ INTL BUS 329	Spanish for Business	3
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3

### Electives

Students typically take three or four elective courses in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Students must take

enough elective credits to attain the required 35 total credits in the major. Choose from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN 303	African Literature and Visual Culture	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN/ FRENCH 440	African/Francophone Film	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 453	Modern African Literature in English	3-4
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 609	Advanced Topics in Global Black Music Studies	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3

AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3
AFROAMER 265	African-American Autobiography	3	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER 271	Selected Topics in African American Culture	3	AFROAMER 456	Soul Music and the African American Freedom Movement	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3	AFROAMER 469	Interdisciplinary Studies in the Arts	1-4
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3	AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	AFROAMER/ POLI SCI 519	African American Political Theory	3-4
AFROAMER 302	Undergraduate Studies in Afro- American History	3	AFROAMER/HDFS/ SOC WORK 521	African American Families	3
AFROAMER 303	Blacks, Film, and Society	3	AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2	AFROAMER 525	Major Authors	3
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2	AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2	AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2	AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3
AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4	AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4	AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3	AFROAMER 669	Interdisciplinary Studies in the Arts	1-4
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3	AFROAMER 671	Selected Topics in Afro-American History	3
AFROAMER/ GEN&WS 333	Black Feminisms	3	AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3
AFROAMER 337	The Harlem Renaissance	3	AFROAMER 673	Selected Topics in Afro-American Society	3
AFROAMER 338	The Black Arts Movement	3	AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	AFROAMER 675	Selected Topics in Afro-American Culture	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
			AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3
			ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
			ANTHRO 327	Peoples of the Andes Today	3

ANTHRO 330	Topics in Ethnology (SE Asia)	3-4	CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4	COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3
ANTHRO 330	Topics in Ethnology (Brazil)	3-4	COM ARTS 346	Critical Internet Studies	3
ANTHRO 350	Political Anthropology	3-4	COM ARTS 350	Introduction to Film	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	COM ARTS 352	Film History to 1960	3
ANTHRO 358	Anthropology of China	3	COM ARTS 371	Communication and Conflict Resolution	3
ANTHRO 365	Medical Anthropology	3	COM ARTS 372	Rhetoric of Campaigns and Revolutions	3
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4	COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3
ANTHRO/LCA 462	Anthropology of South Asia	3	COM ARTS 455	French Film	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3	COM ARTS 456	Russian and Soviet Film	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4	COM ARTS 458	Global Media Cultures	3
ANTHRO 677	Public Monuments and Symbols	3	COM ARTS/ ITALIAN 460	Italian Film	3
ART HIST 350	19th Century Painting in Europe	3-4	COM ARTS 470	Contemporary Political Discourse	3
ART HIST 351	20th Century Art in Europe	3-4	COM ARTS 557	Contemporary Media Industries	3
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4	COM ARTS 577	Dynamics of Online Relationships	3
ART HIST 357	European Architecture: The Nineteenth Century	3-4	COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3
ART HIST 358	European Architecture: The Modern Movements	3-4	COMP LIT 375	Literature and Related Disciplines	3-4
ART HIST 371	Chinese Painting	3-4	COMP LIT 379	Literature and Ethnic Experience	3-4
ART HIST 372	Arts of Japan	3-4	DS 639/ LAND ARC DS 639	Culture and Built Environment	3
ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3
ART HIST 454	Art in Germany, 1900-1945	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3
ART HIST 479	Art and History in Africa	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3	E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3
ATM OCN 100	Weather and Climate	3	E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3
ATM OCN 101	Weather and Climate	4	E ASIAN 253	Introduction to Japanese Culture and Civilization	3
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2	E ASIAN 352	Survey of Chinese Literature	3
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3	E ASIAN 354	Survey of Japanese Literature	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3	E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3	ECON 330	Money and Banking	4
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3	ECON 364	Survey of International Economics	3-4
BOTANY 240	Plants and Humans	3	ECON 464	International Trade and Finance	3-4
C&E SOC/SOC 245	Technology and Society	3	ECON/HISTORY 466	The American Economy Since 1865	3-4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	ECON 467	International Industrial Organizations	3-4
C&E SOC/SOC/ URB R PL 617	Community Development	3	ECON 475	Economics of Growth	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4	ECON/A A E 567	Public Finance in Less Developed Countries	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3			

ED POL 150	Education and Public Policy (Human Rights & Education)	3	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3
ED POL/INTL ST 335	Globalization and Education	3	ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3
ED POL 340	Comparative Education	3	F&W ECOL 318	Principles of Wildlife Ecology	3
ED POL/ ANTHRO 570	Anthropology and Education	3	F&W ECOL 410	Principles of Silviculture	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3	F&W ECOL 450	Communities and Forests	3
ED POL 675	Introduction to Comparative and International Education	3	F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3
ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3	FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
ENGL 352	Modernist Poetry	3	FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
ENGL 353	British Literature since 1900	3	FOLKLORE 510	Folklore Theory	3
ENGL 453	Topic in British Literature and Culture since 1900	3	FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	FOLKLORE 560	Folklore in a Digital Age	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3	FRENCH 211	French Interdisciplinary Studies	3
ENVIR ST/ILS 126	Principles of Environmental Science	4	FRENCH 240	Immigration and Expression	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4	FRENCH 322	Introduction to Literature of Modernity	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3	FRENCH 325	Visual Culture in French/ Francophone Studies	3
ENVIR ST/BSE 367	Renewable Energy Systems	3	FRENCH 348	Modernity Studies	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2	FRENCH 433	Readings in Twentieth and Twenty- First Century Literature	3
ENVIR ST/N E 373	Nuclear Energy and the Environment	3	FRENCH 449	Francophone Modernity Studies	3
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4	FRENCH 465	French/Francophone Film	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4	FRENCH 467	Aspects of Contemporary French Literature	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3	FRENCH 472	French/Francophone Literature and Women	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	FRENCH 595	Theory and Practice of French/ Francophone Drama	4
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	GEN&WS/ENGL 250	Women in Literature	3
ENVIR ST 539	Air Resources Science and Policy	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3
			GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
			GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
			GEN&WS 420	Women in Cross-Societal Perspective	3

GEN&WS 424	Women's International Human Rights	3	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4	GERMAN 278	Topics in German Culture (Culture in 20th Century)	3
GEN&WS/ URB R PL 644	International Development and Gender	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4
GEOG 101	Introduction to Human Geography	4	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3
GEOG/ENVIR ST 120	Introduction to the Earth System	3	GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5	GERMAN 362	Topics in German Literature (Musik)	3-4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4
GEOG 301	Geography of Social Organization	3	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4
GEOG/URB R PL 305	Introduction to the City	3-4	GERMAN 372	Topics in German Culture (Oesterreich)	3-4
GEOG 318	Introduction to Geopolitics	3	GERMAN 372	Topics in German Culture (Deutscher Film)	3-4
GEOG 319	Environmental Evaluation and Adaptation	3	GERMAN 372	Topics in German Culture (Green Germany)	3-4
GEOG 321	Climatology	3	GERMAN 372	Topics in German Culture (China-German Point of View)	3-4
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3	GERMAN 411	Kultur des 20. Jahrhunderts	3-4
GEOG/BOTANY 338	Environmental Biogeography	3	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4
GEOG/ENVIR ST 339	Environmental Conservation	4	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3
GEOG 340	World Regions in Global Context	3	GERMAN/ COM ARTS 655	German Film	3
GEOG 349	Europe	3	HIST SCI 337	History of Technology	3
GEOG 355	Africa, South of the Sahara	3	HIST SCI 339	Technology and Its Critics Since World War II	3
GEOG 358	Human Geography of Southeast Asia	3	HIST SCI/ ENVIR ST 353	History of Ecology	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3	HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4	HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3
GEOG 475	Topics in Geography	1-4	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3	HISTORY 201	The Historian's Craft (various)	3-4
GEOG 510	Economic Geography	4	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4
GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4
GEOG/ENVIR ST 537	Culture and Environment	4	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)	3
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3			
GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4			
GEOSCI/ ENVIR ST 106	Environmental Geology	3			
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3			
GEOSCI/ ENVIR ST 411	Energy Resources	3			

HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
HISTORY 241	Latin America from 1780 to 1940	4	INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	3-4
HISTORY 242	Modern Latin America, 1898 to the Present	4	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	INTL ST/ED POL 335	Globalization and Education	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	INTL ST/A A E 373	Globalization, Poverty and Development	3
HISTORY 319	The Vietnam Wars	3-4	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
HISTORY 335	Korean History, 1945 to present	3-4	INTL ST 401	Topics in Global Security	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
HISTORY 357	The Second World War	3-4	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
HISTORY/ GEN&WS 392	Women in History	3-4	INTL ST 404	Topics in Global Environment	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4	INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3
HISTORY 418	History of Russia	3-4	INTL ST/ POLI SCI 431	Contentious Politics	3-4
HISTORY 419	History of Soviet Russia	3-4	INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4
HISTORY 420	Russian Social and Intellectual History	3-4	INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4	INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	INTL ST 501	Study Abroad Topics in Global Security	1-6
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
HISTORY/ E A STDS 454	Samurai: History and Image	3-4	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	INTL ST 504	Study Abroad Topics in Global Environment	1-6
HISTORY 475	European Social History, 1914- Present	3-4	INTL ST 520	Study Abroad Topics in International Studies	1-6
HISTORY 503	Irish and Scottish Migrations	3	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3
HISTORY 514	European Cultural History Since 1870	3-4	INTL ST 601	Topics in Global Security	1-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4	INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	INTL ST 603	Topics in Culture in the Age of Globalization	1-4
HORT 370	World Vegetable Crops	3	INTL ST 604	Topics in Global Environment	1-4
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3	INTL ST 620	Topics in International Studies	1-4
INTL BUS 200	International Business	3	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	ITALIAN 230	Modern Italian Culture	3
INTL BUS/A A E/ ECON 462	Latin American Economic Development	3	ITALIAN 322	Introduction to Italian Literature	3
INTL BUS 365	Contemporary Topics (International Perspectives)	1-3	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3
			ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3



ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3	LCA LANG 617	Thai Poetry	3
ITALIAN/COM ARTS 460	Italian Film	3	LCA LANG 618	Thai Prose Literature: The Short Story	3
ITALIAN 637	La Poesia del Novecento	3	LCA LANG 654	Advanced Readings in Hindi Literature	3
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3	LCA LANG 677	Advanced Readings in Tibetan	3
JEWISH/LITTRANS 367	Israeli Fiction in Translation	3-4	LEGAL ST 409	Human Rights in Law and Society	3
JEWISH/ANTHRO/RELIG ST 372	Jews of Central and Eastern Europe	3-4	LEGAL ST/L I S 663	Introduction to Cyberlaw	3
JEWISH/HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4	LINGUIS/ANTHRO/LCA 430	Language and Culture	3-4
JEWISH/PHILOS 442	Moral Philosophy and the Holocaust	3	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
JEWISH/CURRIC/HISTORY 515	Holocaust: History, Memory and Education	3	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3	LITTRANS/GEN&WS 205	Women in Russian Literature in Translation	3-4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3	LITTRANS 211	Modern Indian Literatures in Translation	3
JEWISH/POLI SCI 665	Israeli Politics and Society	3-4	LITTRANS 214	Literatures of Central Asia in Translation	3
JOURN/COM ARTS/LSC 617	Health Communication in the Information Age	3	LITTRANS 220	Chekhov in Translation	3-4
JOURN 618	Mass Communication and Political Behavior	4	LITTRANS 222	Dostoevsky in Translation	3-4
JOURN 620	International Communication	4	LITTRANS 224	Tolstoy in Translation	3-4
JOURN 621	Mass Communication in Developing Nations	4	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
L I S 201	The Information Society	4	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
L I S 661	Information Ethics and Policy	3	LITTRANS 240	Soviet Literature in Translation	3-4
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3
LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3	LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3
LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
LCA 311	Modern Indian Literatures	3	LITTRANS/RELIG ST 257	Literatures of Muslim Societies in Translation	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3	LITTRANS/GEN&WS 270	German Women Writers in Translation	3
LCA 361	Survey of Indonesian Cultures	3	LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3
LCA/RELIG ST 402	Thought of Gandhi	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
LCA 403	Southeast Asian Literature	3	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3
LCA/ART HIST 428	Visual Cultures of South Asia	3	LITTRANS 301	Modern Indonesian Literature in Translation	3
LCA 441	Language and Society in Southeast Asia	3	LITTRANS 304	Southeast Asian Literature in Translation	3
LCA/HISTORY 450	Making of Modern South Asia	3-4	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA 579	Fiction and Ethnography in Turkey	3			
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3			
LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3			

LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4	POLI SCI 348	Analysis of International Relations	3-4
LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4	POLI SCI 350	International Political Economy	3-4
LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4	POLI SCI 351	Politics of the World Economy	3-4
LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4	POLI SCI 353	The Third World in the International System	3-4
LITTRANS 368	Modern Japanese Fiction	3	POLI SCI 354	International Institutions and World Order	3-4
LITTRANS 373	Topics in Japanese Literature (Evangelion)	3	POLI SCI 356	Principles of International Law	3-4
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3	POLI SCI 359	American Foreign Policy	3-4
LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3	POLI SCI 363	Literature and Politics	3-4
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
LITTRANS 473	Polish Literature (in Translation) since 1863	3	POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3	POLI SCI 421	The Challenge of Democratization	3-4
MED HIST 526	Medical Technology and the Body	3	POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3	POLI SCI/ INTL ST 431	Contentious Politics	3-4
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	POLI SCI 432	Comparative Legal Institutions	3-4
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3	POLI SCI 438	Comparative Political Culture	3-4
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3	POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
MUSIC 416	Survey of Music in the Twentieth Century	3	POLI SCI 455	African International Relations	3-4
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3	POLI SCI 460	Topics in Political Philosophy (Economic Inequality)	3-4
PHILOS/ ENVIR ST 441	Environmental Ethics	3-4	POLI SCI 529	Arab-Israeli Conflict	3-4
PHILOS 555	Political Philosophy	3	POLI SCI 534	Socialism and Transitions to the Market	3-4
PHILOS 557	Issues in Social Philosophy	3	POLI SCI 538	Politics and Policies in the European Union	3-4
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3	POLI SCI 561	Radical Political Theory	3-4
POLI SCI 266	The Development of Modern Western Political Thought	3-4	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3
POLI SCI 313	Bargaining in the Global Economy	3-4	POLI SCI/ RELIG ST 618	Political Islam	3-4
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4	POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 330	Political Economy of Development	3	POLI SCI 640	Politics of Japan	3-4
POLI SCI 333	International Politics of the Middle East	3-4	POLI SCI 652	The Politics of Development	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4	POLI SCI 654	Politics of Revolution	3-4
POLI SCI 343	Theories of International Security	3-4	POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4
POLI SCI 346	China in World Politics	3-4	POLI SCI/LCA 663	South Asia and the Global System: Economy, Security & Culture	3-4
POLI SCI 347	Terrorism	3	POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4
			POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4
			PORTUG/ GEN&WS 450	Brazilian Women Writers	3
			PORTUG 467	Survey of Portuguese Literature since 1825	3

PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3	SLAVIC 472	Historia literatury polskiej po roku 1863	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3	SOC 170	Population Problems	3-4
PSYCH 528	Introduction to Cultural Psychology	3	SOC 225	Contemporary Chinese Society	3
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
RELIG ST/ HISTORY 379	Islam in Iran	3	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4	SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3
RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4	SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3	SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
RELIG ST/ POLI SCI 618	Political Islam	3-4	SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SCAND ST 251	Readings in Norwegian Literature	3-4	SOC 620	Comparative Racial Inequality	3
SCAND ST 261	Readings in Swedish Literature	3-4	SOC/C&E SOC 623	Gender, Society, and Politics	3
SCAND ST 271	Readings in Danish Literature	3-4	SOC 626	Social Movements	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SCAND ST 420	The Woman in Scandinavian Literature	4	SOC 632	Sociology of Organizations	3-4
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SOC 633	Social Stratification	3
SCAND ST 427	Contemporary Scandinavian Literature	4	SOC/LCA/ RELIG ST 634	Social Structure of India	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SOC 640	Sociology of the Family	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SOC 646	Race and Ethnic Relations	3
SCAND ST 437	Modern Scandinavian Drama	4	SOC/ED POL 648	Sociology of Education	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4	SOC/C&E SOC 649	Sociology of Work and Employment	3
SCAND ST 466	Greenland - Past, Present, and Future	3	SOC/C&E SOC 652	Sociology of Economic Institutions	3
SCAND ST 476	Scandinavian Life and Civilization II	4	SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3	SOC/ECON 663	Population and Society	3
SLAVIC 242	Literatures and Cultures of Eastern Europe	3	SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
SLAVIC 302	Zarys historii literatury polskiej	3	SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3
SLAVIC 321	Fourth Year Russian I	4	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SLAVIC 322	Fourth Year Russian II	4	SPANISH 324	Survey of Modern Spanish Literature	3
SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	SPANISH 326	Survey of Spanish American Literature	3
SLAVIC 405	Women in Russian Literature	3-4	SPANISH/ INTL BUS 329	Spanish for Business	3
SLAVIC 420	Chekhov	3-4	SPANISH 361	Spanish Civilization	3
SLAVIC 434	Contemporary Russian Culture	3	SPANISH 363	Spanish American Civilization	3
SLAVIC 439	Russia Today in Literature and Film	4	SPANISH 453	Literature of the Twentieth Century	3
SLAVIC 440	Soviet Literature	3-4	SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SLAVIC 449	Istorija srpske i hrvatske literature	3	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3
SLAVIC 454	Moderna srpska i hrvatska literatura	3	SPANISH 461	The Spanish American Short Story	3
			SPANISH 462	Spanish American Theater and Drama	3

SPANISH 463	The Spanish American Novel	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 465	Literature and Film in Spanish America	3
SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3
SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3
THEATRE 327	History of Costume for the Stage	3
THEATRE 351	Fundamentals of Asian Stage Discipline	3
THEATRE 420	Theatre and Society	3
THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
THEATRE 526	The Theatres of China and Japan	3
THEATRE/ SLAVIC 532	History of Russian Theatre	3
THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3
ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3

<sup>4</sup> A maximum four courses from a single SUBJECT may be applied to the 35 credits in the major. This excludes INTL ST courses and courses cross-listed in INTL ST. *For example: A student with five POLI SCI courses that could apply to the major will see only four of those courses applying in the international studies major. (However, if one of those POLI SCI courses is also cross-listed in INTL ST, that course will not count against the limit, and thus, all five POLI SCI courses will apply in the major). The degree audit (DARS) enforces this limitation.*

Though some courses are identified as acceptable for two or more requirements, a course may meet only one requirement. *For example, a course that could count in either Option Core or Option Issues will meet only one of those requirements, based on which requirement needs that course to become satisfied. The degree audit (DARS) determines the best scenario.*

## DISTINCTION IN THE MAJOR

Students not enrolled in the Honors Program may apply for Distinction in the Major. Criteria include:

1. A 3.500 grade point average in the major
2. Completion of a Senior Thesis, Senior Seminar, or "substantial extra work" in an advanced course in the major
3. A letter of recommendation from a member of the UW–Madison faculty to the international studies advising staff (submitted three weeks prior to the date of graduation).

## HONORS IN THE MAJOR

Students may declare Honors in the International Studies Major in consultation with the International Studies advisor(s). They must declare prior to enrollment in their Senior Honors Thesis (typically second semester of junior year).

## HONORS IN THE INTERNATIONAL STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in International Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in major courses
- Complete 16 upper-level<sup>1</sup> major credits, taken for Honors, with individual grades of B or better in each course<sup>2</sup>
- Complete a two-semester Senior Honors Thesis, for a total of 6 credits, or two Senior Seminars, with grades of B or better; choose from:

Code	Title	Credits
<b>Senior Honors Thesis (2 courses):</b>		
AFRICAN 681 & AFRICAN 682	Senior Honors Thesis and Senior Honors Thesis	
E A STDS 681 & E A STDS 682	Senior Honors Thesis and Senior Honors Thesis	
E ASIAN 681 & E ASIAN 682	Senior Honors Thesis and Senior Honors Thesis	
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis	
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	
HISTORY 681 & HISTORY 682	Senior Honors Thesis and Senior Honors Thesis	
INTL ST 681 & INTL ST 682	Senior Honors Thesis and Senior Honors Thesis	
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis	
PORTUG 681 & PORTUG 682	Senior Honors Thesis and Senior Honors Thesis	
SLAVIC 681 & SLAVIC 682	Senior Honors Thesis and Senior Honors Thesis	

SPANISH 681 Senior Honors Thesis  
& SPANISH 682 and Senior Honors Thesis

Senior Seminar (2 courses):

INTL ST 601	Topics in Global Security
INTL ST 602	Topics in Politics and Policy in the Global Economy
INTL ST 603	Topics in Culture in the Age of Globalization
INTL ST 604	Topics in Global Environment

<sup>1</sup> All intermediate- and advanced-level courses counting in the major are considered upper level.

<sup>2</sup> A maximum of 2 courses and 8 credits from UW–Madison Study Abroad may count.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

- Interdisciplinarity:** analyzing contemporary political, economic, security and cultural realities globally from multi-disciplinary perspectives, ideally including humanities, social sciences, humanitarian, and sometimes natural science approaches.
- Depth of knowledge:** mastering at the undergraduate generalist level major issues related to key themes in International Studies (e.g. culture, global security and political economy) by taking 15 credits in one particular theme area.
- Regional (studies) grounding:** understanding the social, political, economic and cultural forces and conditions that have given rise to the unity and diversity of a specific region of the world today.
- Language knowledge:** mastering at the undergraduate generalist level a particular facet of life in one or more region of the world by studying a foreign language to at least the advanced (5th semester) level.
- Analytical skills:** demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## ADVISING AND CAREERS

### INTERNATIONAL STUDIES MAJOR ADVISING STAFF

International studies majors have a wide variety of academic advising and career resources and support. Academic advising is essential to a successful undergraduate experience. For this reason, the international studies major has a professional advisor, a peer advisor, and a career advisor. We recommend that you meet with your advisor at least once per semester to track progress toward your degree, explore study abroad options, and begin the career exploration process. The IS major offers walk-in advising, advising workshops, and scheduled appointments. Students exploring the IS major should plan to attend an Intro to the IS Major workshop (<http://www.ismajor.wisc.edu/about/news-and-events/upcoming-workshop-dates>). To learn more about academic advising information, please visit the IS Major website (<http://www.ismajor.wisc.edu/about/current-students/academic-advising>).

Students should also begin the career advising process early. The international studies major offers a 1-credit career class designed for sophomores or juniors. Students are strongly encouraged to meet with both the IS career advisor and L&S Career Services and apply for internship opportunities—both domestically and via International Internship Programs or the Washington DC Internship Program. The IS major also maintains a list of career events (<http://www.ismajor.wisc.edu/about/news-and-events/career-and-internship-events>) across campus that will benefit undergraduate students, hosts career workshops, and has a transition checklist to help students prepare for post-undergraduate life. For more information, please visit our website (<http://www.ismajor.wisc.edu/about/current-students/careers>).

**Kirsten Brown, Ph.D.—Academic Advisor**

**Csanád Siklós, Ph.D.—Academic Advisor**

**Joel Clark—Career Advisor**

### LETTERS & SCIENCE CAREER RESOURCES

International Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

The international studies major is directed by Dr. Jo Ellen Fair, Professor of African Cultural Studies.

The advisors for the international studies major are Dr. Kirsten R. Brown and Dr. Csanád Siklós.

The career advisor is Dr. Joel Clark.

## WISCONSIN EXPERIENCE

### STUDY ABROAD

International studies majors are strongly encourage to study abroad. The International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/study-abroad>) provides information about how to plan your experience abroad.

### INTERNSHIP ABROAD

International studies majors are strongly encourage to study abroad. Please review information on the International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/internships>) and the International Internship Program website (<http://internships.international.wisc.edu>) about opportunities.

### UNDERGRADUATE RESEARCH

The international studies major encourages students to become engaged in undergraduate research. There are numerous programs (<http://www.provost.wisc.edu/undergradresearch.htm>) that provide research opportunities for undergraduates at UW–Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<http://www.provost.wisc.edu/hilldale.htm>)
- McNair Scholars (<http://grad.wisc.edu/mcnair>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu>)
- The Wisconsin Idea Undergraduate Fellowship Program (<http://www.morgridge.wisc.edu/programs/wif>)

## INTERNATIONAL STUDIES, B.S.

International Studies (IS) offers an interdisciplinary major with a broad background in international and transnational political, social, economic, commercial, and environmental affairs, together with a comparative study of politics, economics, security, and culture. The goal is to provide students with the necessary tools to understand global processes in their totality and how they are situated and lived in specific regions. The major provides an integrated program of courses that lays the foundation for professional training in a wide variety of areas. Such a foundation can be invaluable in securing a place in competitive graduate or professional schools, which, in turn, prepare students for government service, or for other careers with an international focus, including those in multinational

corporations, international finance, non-governmental organizations, and institutions of teaching and research.

The IS major complements numerous majors across campus. Many students choose to double major or enhance their studies with one or more certificates, such as the global health certificate or those offered by the area studies centers.

This major is interdisciplinary, offering a wealth of options. Careful planning and consultation with the IS advisor is especially important.

## IS MAJORS SPECIALIZE IN ONE OF THREE OPTIONS:

### Option I: Global Security

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

### Option II: Politics and Policy in the Global Economy

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

### Option III: Culture in the Age of Globalization

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

### STUDY ABROAD

International studies and studying abroad are a natural combination. While study abroad is not a requirement for the major, all IS students are strongly encouraged to pursue a significant international experience during the course of the undergraduate career. Whether through a study abroad program, an internship, or service learning, the experience of studying or working in a foreign culture is invaluable. Many courses taken abroad will count toward the IS major. See the IS advisor for specific guidelines. More information about study abroad and internships is available through International Academic Programs (<http://www.studyabroad.wisc.edu>).

## HOW TO GET IN

Students are advised to declare the major by the end of the sophomore year and/or before studying abroad. To be eligible to declare the international studies major a student must have a GPA of 2.000 both in the major and overall, and have completed (or be in progress toward completing) the following courses, with a minimum combined 2.000 GPA:

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4

Complete the 5th unit of a foreign language <sup>1</sup>

Select one of the following: 4-8

ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics
ECON 111	Principles of Economics-Accelerated Treatment <sup>2</sup>

<sup>1</sup> This requirement must be completed before graduation. ESL 118 substitutes for the foreign language admission requirement.

<sup>2</sup> ECON 111 requires placement in MATH 221 or higher and is limited enrollment.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS OF THE MAJOR

Students must declare the major, complete the common requirements, and the requirements for one of the options within the international studies major.

The international studies major offers three options:

- Culture in the Age of Globalization
- Global Security
- Politics and Policy in the Global Economy

A student may not declare or earn more than one major option.

### COMMON MAJOR REQUIREMENTS INTRODUCTORY REQUIREMENTS

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
Complete the 5th Unit of a Foreign Language (see course list below) <sup>1</sup>		
Select one of the following:		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	

A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment <sup>2</sup>	
Total Credits		7-12

<sup>1</sup> ESL 118 Academic Writing II substitutes for the Foreign Language requirement.

<sup>2</sup> ECON 111 requires placement in MATH 221 or higher is limited enrollment.

### 5th Unit of Foreign Language Course List

Code	Title	Credits
AFRICAN 435	Advanced Studies in Swahili Language-Grammar	3
AFRICAN 436	Advanced Studies in Swahili Language-Readings	3
AFRICAN/ LCA LANG 445	Readings in Advanced Arabic Texts	3
AFRICAN 475	Fifth Semester Yoruba	3
AFRICAN 476	Sixth Semester Yoruba	3
AFRICAN 491	Fifth Semester, A Language of Central Africa	3
AFRICAN 493	Fifth Semester, A Language of Southern Africa	3
AFRICAN 494	Sixth Semester, A Language of Southern Africa	3
AFRICAN 495	Fifth Semester, A Language of Northern Africa	3
AFRICAN 496	Sixth Semester, A Language of Northern Africa	3
AFRICAN 497	Fifth Semester, A Language of West Africa	3
AFRICAN 498	Sixth Semester, A Language of West Africa	3
E ASIAN 301	Fifth Semester Chinese	4
E ASIAN 302	Sixth Semester Chinese	4
E ASIAN 303	Fifth Semester Japanese	4
E ASIAN 304	Sixth Semester Japanese	4
E ASIAN 335	Intermediate Japanese Conversation	3
E ASIAN 347	Fifth Semester Korean	3
E ASIAN 348	Sixth Semester Korean	3
E ASIAN 351	Survey of Chinese Literature	3
E ASIAN 354	Survey of Japanese Literature	3
E ASIAN 401	Seventh Semester Chinese	3
E ASIAN 402	Eighth Semester Chinese	3
E ASIAN 403	Seventh Semester Japanese	3
E ASIAN 404	Eighth Semester Japanese	3
E ASIAN 405	Seventh Semester Korean	3
E ASIAN 406	Eighth Semester Korean	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN 501	Fifth-year Chinese	3

E ASIAN 563	Readings in Modern Japanese Literature	3
E ASIAN 564	Readings in Modern Japanese Literature	3
E ASIAN 573	Readings in Classical Japanese Literature	3
E ASIAN 574	Readings in Classical Japanese Literature	3
E ASIAN 651	History of Chinese Literature	3
E ASIAN 652	History of Chinese Literature	3
FRENCH 227	Exploring French: Intermediate-Level Course for Entering Students	3
FRENCH 228	Intermediate Language and Culture	3-4
FRENCH 271	Introduction to Literary Analysis	3-4
FRENCH 311	Advanced Composition and Conversation	3
FRENCH 312	Advanced Oral and Written Expression: Writing Across the Humanities	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 325	Visual Culture in French/Francophone Studies	3
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3
FRENCH 348	Modernity Studies	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH/ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 590	Advanced Phonetics	3
FRENCH 595	Theory and Practice of French/Francophone Drama	4



GERMAN 221	Introduction to German Literature and Culture I	3	HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
GERMAN 222	Introduction to German Literature and Culture II	3	HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
GERMAN 225	Composition and Conversation I	3	HEBR-BIB/ JEWISH 513	Biblical Texts, Poetry	3
GERMAN 226	Composition and Conversation II	3-4	HEBR-BIB/ JEWISH 514	Biblical Texts, Poetry	3
GERMAN 235	Dutch Conversation and Composition	3	HEBR-BIB 641	The Book of Ezekiel	3
GERMAN 249	Intermediate German - Speaking and Listening	3	HEBR-BIB 701	Aramaic I	3
GERMAN 258	Intermediate German-Reading	3	HEBR-BIB 702	Aramaic II	3
GERMAN 262	Intermediate German-Writing	3	HEBR-BIB 703	Ugaritic Texts	3
GERMAN 274	Introduction to German Literature	6	HEBR-BIB 704	Canaanite Dialects	3
GERMAN 284	Honors Introduction to German Literature	6	HEBR-BIB 705	Syriac I	3
GERMAN 303	Literatur des 19. Jahrhunderts	3-4	HEBR-BIB 706	Syriac II	3
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4	HEBR-BIB 723	Classical Hebrew Linguistics: Historical and Descriptive	3
GERMAN 313	Third Semester Dutch for Graduate Students	3	HEBR-BIB 751	The Book of Isaiah	3
GERMAN 325	Topics in Dutch Literature	3	ITALIAN 230	Modern Italian Culture	3
GERMAN 337	Advanced Composition & Conversation	3-4	ITALIAN 311	Advanced Italian Language	3
GERMAN 351	Introduction to German Linguistics	3-4	ITALIAN 312	Writing Workshop	3
GERMAN 352	Topics in German Linguistics	3-4	ITALIAN 321	Introduction to Italian Literature	3
GERMAN 367	Study Abroad in German Literature	2-5	ITALIAN 322	Introduction to Italian Literature	3
GERMAN 368	Study Abroad in German Culture	2-5	ITALIAN 423	Corso Di Stilistica Applicata	3
GERMAN 369	Study Abroad in German Linguistics	2-5	ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
GERMAN 377	Study Abroad in Dutch Literature	2-5	ITALIAN 450	Special Topics in Italian Literature	3
GERMAN 378	Study Abroad in Dutch Culture	2-5	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3
GERMAN 379	Study Abroad in Dutch Linguistics	2-5	ITALIAN 453	Special Topics in Italian Studies: Culture, Film, Language	1
GERMAN 410	Kultur 1648-1918	3-4	ITALIAN 601	L'Ottocento	3
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	ITALIAN 621	Il Settecento	3
GERMAN 625	Letterkunde der Lage Landen	3-4	ITALIAN 631	Lineamenti Di Letteratura Italiana	3
GERMAN 632	A Theme in German Literature	3	ITALIAN 635	Il Romanzo Italiano	3
GERMAN 645	Cultuurkunde der Lage Landen	3-4	ITALIAN 636	Il Romanzo Italiano	3
GERMAN 677	Seminar in German Culture Studies	3	ITALIAN 637	La Poesia del Novecento	3
GREEK 401	Greek Drama	3	ITALIAN 651	Il Rinascimento	3
GREEK 402	Greek Drama and Lyric Poetry	3	ITALIAN/ MEDIEVAL 659	Dante's Divina Commedia	3
GREEK 505	Elementary Prose Composition	3	ITALIAN/ MEDIEVAL 660	Dante's Divina Commedia	3
GREEK 510	Homer	3	ITALIAN/ MEDIEVAL 671	Il Duecento	3
GREEK 511	Hesiod	3	JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3
GREEK 512	Greek Lyric Poets	3	LATIN 301	Latin Literature of the Roman Republic	3
GREEK 520	Greek Comedy	3	LATIN 302	Latin Literature of the Roman Empire	3
GREEK 521	Greek Tragedy	3	LATIN 505	Elementary Prose Composition	3
GREEK 532	Thucydides	3	LCA LANG 501	Fifth Semester Asian Language	3
GREEK 541	Plato	3	LCA LANG 503	Fifth Semester Burmese	3
GREEK 551	Attic Orators	3			
GREEK 560	Hellenistic Greek	3			
GREEK 564	Plutarch	3			
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	3			
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	3			

LCA LANG 504	Sixth Semester Burmese	3	PORTUG 225	Third Year Conversation and Composition	3
LCA LANG 505	Fifth Semester Filipino	3	PORTUG 226	Third Year Conversation and Composition	3
LCA LANG 506	Sixth Semester Filipino	3	PORTUG 311	Fourth Year Composition and Conversation	3
LCA LANG 507	Fifth Semester Hmong	3	PORTUG 312	Fourth Year Composition and Conversation	3
LCA LANG 508	Sixth Semester Hmong	3	SCAND ST 251	Readings in Norwegian Literature	3-4
LCA LANG 509	Fifth Semester Indonesian	3	SCAND ST 261	Readings in Swedish Literature	3-4
LCA LANG 510	Sixth Semester Indonesian	3	SCAND ST 271	Readings in Danish Literature	3-4
LCA LANG 513	Fifth Semester Khmer	3	SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
LCA LANG 514	Sixth Semester Khmer	3	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
LCA LANG 515	Fifth Semester Lao	3	SCAND ST 375	The Writings of Hans Christian Andersen	3-4
LCA LANG 516	Sixth Semester Lao	3	SCAND ST 401	Contemporary Scandinavian Languages	3
LCA LANG 517	Fifth Semester Thai	3	SCAND ST 419	Scandinavian Children's Literature	4
LCA LANG 518	Sixth Semester Thai	3	SCAND ST 420	The Woman in Scandinavian Literature	4
LCA LANG 519	Fifth Semester Vietnamese	3	SCAND ST 422	The Drama of Henrik Ibsen	4
LCA LANG 520	Sixth Semester Vietnamese	3	SCAND ST 423	The Drama of August Strindberg	4
LCA LANG/AFRICAN 527	Advanced Summer Immersion Arabic	8	SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4
LCA LANG 528	Advanced Summer Immersion Persian	8	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
LCA LANG 529	Advanced Summer Immersion Turkish	8	SCAND ST 426	Kierkegaard and Scandinavian Literature	4
LCA LANG 531	Fifth Semester Kazak	3	SCAND ST 427	Contemporary Scandinavian Literature	4
LCA LANG 532	Sixth Semester Kazak	3	SCAND ST 433	The Scandinavian Tale and Ballad	4
LCA LANG 539	Fifth Semester Turkish and Azeri	3	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
LCA LANG 540	Sixth Semester Turkish and Azeri	3	SCAND ST 435	The Icelandic Sagas	4
LCA LANG 553	Fifth Semester Hindi	3-4	SCAND ST 437	Modern Scandinavian Drama	4
LCA LANG 554	Sixth Semester Hindi	3-4	SCAND ST 496	The Scandinavian Heritage in America	3
LCA LANG 557	Fifth Semester Tibetan	4	SLAVIC 275	Third Year Russian I	3-4
LCA LANG 558	Sixth Semester Tibetan	4	SLAVIC 276	Third Year Russian II	3-4
LCA LANG 563	Fifth Semester Persian	3	SLAVIC 277	Third Year Polish I	3
LCA LANG 564	Sixth Semester Persian	3	SLAVIC 278	Third Year Polish II	3
LCA LANG 571	Fifth Semester Urdu	3-4	SLAVIC 302	Zarys historii literatury polskiej	3
LCA LANG 572	Sixth Semester Urdu	3-4	SLAVIC 307	Study Abroad in Poland	1-4
LCA LANG 601	Seventh Semester Asian Language	3	SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
LCA LANG 602	Eighth Semester Asian Language	3	SLAVIC 309	Russian Area Studies on Study Abroad	1-4
LCA LANG 616	Modern Thai Literature: The Novel	3	SLAVIC 315	Russian Language and Culture I	2
LCA LANG 617	Thai Poetry	3	SLAVIC 316	Russian Language and Culture II	2
LCA LANG 618	Thai Prose Literature: The Short Story	3	SLAVIC 321	Fourth Year Russian I	4
LCA LANG 631	Advanced Readings in Turkic Languages	3	SLAVIC 322	Fourth Year Russian II	4
LCA LANG 644	Readings in Otoman Turkish and Chagatay	3	SLAVIC 331	Fourth Year Polish I	3
LCA LANG 648	Advanced Readings in Pali Literature	3			
LCA LANG 653	Advanced Readings in Hindi Language	3			
LCA LANG 654	Advanced Readings in Hindi Literature	3			
LCA LANG 671	Advanced Readings in Urdu Language	3			
LCA LANG 675	Advanced Readings in Sanskrit	3			
LCA LANG 677	Advanced Readings in Tibetan	3			

SLAVIC 332	Fourth Year Polish II	3	E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
SLAVIC 350	Special Topics in Russian Language, Literature, and Culture	3	GEOG 340	World Regions in Global Context	3
SLAVIC 420	Chekhov	3-4	HISTORY 120	Europe and the Modern World 1815 to the Present	4
SLAVIC 421	Gogol	3-4	HISTORY 139	The Middle East in the 20th Century	3-4
SLAVIC 422	Dostoevsky	3-4	HISTORY 142	History of South Asia to the Present	3-4
SLAVIC 424	Tolstoy	3-4	HISTORY 201	The Historian's Craft (Portraying China)	3-4
SLAVIC 440	Soviet Literature	3-4	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
SLAVIC 472	Historia literatury polskiej po roku 1863	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
SPANISH 223	Introduction to Hispanic Cultures	3	HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
SPANISH 224	Introduction to Hispanic Literatures	3	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
SPANISH 311	Advanced Language Practice	3	HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
SPANISH 319	Topics in Spanish Language Practice	1-3	HISTORY 349	Contemporary France, 1914 to the Present	3-4
SPANISH 320	Spanish Phonetics	3	HISTORY 359	History of Europe Since 1945	3-4
SPANISH 322	Survey of Early Hispanic Literature	3	HISTORY 378	History of Africa Since 1870	3-4
SPANISH 327	Introduction to Spanish Linguistics	3	HISTORY 410	History of Germany, 1871 to the Present	3-4
SPANISH 361	Spanish Civilization	3	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
SPANISH 363	Spanish American Civilization	3	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
SPANISH 417	Literatura del Siglo de Oro	3-4	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
SPANISH 435	Cervantes	3	LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
SPANISH 453	Literature of the Twentieth Century	3	LCA 266	Introduction to the Middle East	3
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3	SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	4
SPANISH 460	Literatura Hispanoamericana	3	SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	4
SPANISH 461	The Spanish American Short Story	3			
SPANISH 462	Spanish American Theater and Drama	3			
SPANISH 463	The Spanish American Novel	3			
SPANISH 464	Spanish American Poetry and Essay	3			
SPANISH 465	Literature and Film in Spanish America	3			
SPANISH 466	Topics in Spanish American Literature	1			
SPANISH 468	Topics in Hispanic Culture	3			
SPANISH/ CHICLA 469	Topics in Hispanic Cultures in the U.S.	3			
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/ Linguistics	3			

## AREA STUDIES

Area studies courses help students focus their on a specific geographic regions. Students must choose one course from:

Code	Title	Credits
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4

## RESIDENCE & QUALITY OF WORK

2.000 GPA in all INTL ST courses and other courses in the major

2.000 GPA on 15 upper-level major credits, taken in residence

15 credits in the major, taken on the UW–Madison campus<sup>3</sup>

<sup>3</sup> Major courses with Intermediate and Advanced level are considered Upper-Level.

## OPTIONS WITHIN THE MAJOR

Each option in the major **requires 35 credits**. Students select one Area Studies course (above), and the option-specific requirements for Core, Issues, and Elective classes (below).<sup>4</sup>

### CULTURE IN THE AGE OF GLOBALIZATION

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

#### Culture Core

Two courses from:

Code	Title	Credits
AFRICAN 669	Special Topics (Celebrity Culture)	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
GEN&WS 420	Women in Cross-Societal Perspective	3
HISTORY 403	Immigration and Assimilation in American History	3-4
INTL ST 403	Topics in Culture in the Age of Globalization	3-4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
INTL ST 603	Topics in Culture in the Age of Globalization	1-4
INTL ST 620	Topics in International Studies (Global Social Networks)	1-4
JOURN 620	International Communication	4
JOURN 621	Mass Communication in Developing Nations	4
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4
PSYCH 528	Introduction to Cultural Psychology	3
SOC 626	Social Movements	3
THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3

#### Culture Issues

15 credits from:

Code	Title	Credits
AFRICAN 230	Introduction to Yoruba Life and Culture	3

AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
AFRICAN/ FRENCH 440	African/Francophone Film	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 453	Modern African Literature in English	3-4
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
AFRICAN 500	Language and Society in Africa	3-4
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER 265	African-American Autobiography	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER 271	Selected Topics in African American Culture	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2

AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2	AFROAMER 673	Selected Topics in Afro-American Society	3
AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4	AFROAMER 675	Selected Topics in Afro-American Culture	3
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4	AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3	ANTHRO 327	Peoples of the Andes Today	3
AFROAMER/ GEN&WS 333	Black Feminisms	3	ANTHRO 330	Topics in Ethnology (SE Asia)	3-4
AFROAMER 337	The Harlem Renaissance	3	ANTHRO 330	Topics in Ethnology (Brazil)	3-4
AFROAMER 338	The Black Arts Movement	3	ANTHRO 350	Political Anthropology	3-4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	ANTHRO 358	Anthropology of China	3
AFROAMER 469	Interdisciplinary Studies in the Arts	1-4	ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
AFROAMER 501	19th Century Afro-American Literature	3	ANTHRO/LCA 462	Anthropology of South Asia	3
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3	ANTHRO 490	Undergraduate Seminar	3
AFROAMER/ POLI SCI 519	African American Political Theory	3-4	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
AFROAMER/HDFS/ SOC WORK 521	African American Families	3	ANTHRO 677	Public Monuments and Symbols	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	ART HIST 350	19th Century Painting in Europe	3-4
AFROAMER 525	Major Authors	3	ART HIST 351	20th Century Art in Europe	3-4
AFROAMER/ ED POL 567	History of African American Education	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	ART HIST 357	European Architecture: The Nineteenth Century	3-4
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3	ART HIST 358	European Architecture: The Modern Movements	3-4
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3	ART HIST 371	Chinese Painting	3-4
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	ART HIST 372	Arts of Japan	3-4
AFROAMER 631	Colloquium in Afro-American History	3	ART HIST 411	Topics in Asian Art (Modern & Contemporary)	3-4
AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3	ART HIST 454	Art in Germany, 1900-1945	3-4
AFROAMER 669	Interdisciplinary Studies in the Arts	1-4	ART HIST 479	Art and History in Africa	3-4
AFROAMER 671	Selected Topics in Afro-American History	3	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	C&E SOC/SOC 245	Technology and Society	3
			C&E SOC/SOC/ URB R PL 617	Community Development	3
			CHICLA/ HISTORY 462	The American West Since 1850	3-4
			CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3
			CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
			COM ARTS 346	Critical Internet Studies	3
			COM ARTS 350	Introduction to Film	3
			COM ARTS 352	Film History to 1960	3

COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	FOLKLORE 510	Folklore Theory	3
COM ARTS 455	French Film	3	FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3
COM ARTS 456	Russian and Soviet Film	3	FOLKLORE 560	Folklore in a Digital Age	3
COM ARTS 458	Global Media Cultures	3	FRENCH 211	French Interdisciplinary Studies	3
COM ARTS/ ITALIAN 460	Italian Film	3	FRENCH 240	Immigration and Expression	3
COM ARTS 470	Contemporary Political Discourse	3	FRENCH 322	Introduction to Literature of Modernity	3
COM ARTS 557	Contemporary Media Industries	3	FRENCH 325	Visual Culture in French/ Francophone Studies	3
COM ARTS 577	Dynamics of Online Relationships	3	FRENCH 348	Modernity Studies	3
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	FRENCH 433	Readings in Twentieth and Twenty- First Century Literature	3
COMP LIT 375	Literature and Related Disciplines	3-4	FRENCH 449	Francophone Modernity Studies	3
COMP LIT 379	Literature and Ethnic Experience	3-4	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
DS 639/ LAND ARC DS 639	Culture and Built Environment	3	FRENCH 465	French/Francophone Film	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3	FRENCH 467	Aspects of Contemporary French Literature	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3	FRENCH 472	French/Francophone Literature and Women	3
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	FRENCH 595	Theory and Practice of French/ Francophone Drama	4
E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3	GEN&WS/ENGL 250	Women in Literature	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3
E ASIAN 301	Fifth Semester Chinese (Contemporary Chinese Society)	4	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3
E ASIAN 352	Survey of Chinese Literature	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
E ASIAN 354	Survey of Japanese Literature	3	GEN&WS 420	Women in Cross-Societal Perspective	3
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3	GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
ED POL 150	Education and Public Policy (Human Rights & Education)	3	GEOG 101	Introduction to Human Geography	4
ED POL 340	Comparative Education	3	GEOG 301	Geography of Social Organization	3
ED POL/ ANTHRO 570	Anthropology and Education	3	GEOG/URB R PL 305	Introduction to the City	3-4
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3	GEOG 340	World Regions in Global Context	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3	GEOG 349	Europe	3
ENGL 352	Modernist Poetry	3	GEOG 355	Africa, South of the Sahara	3
ENGL 353	British Literature since 1900	3	GEOG 358	Human Geography of Southeast Asia	3
ENGL 453	Topic in British Literature and Culture since 1900	3	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water?)	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	GERMAN 278	Topics in German Culture (Culture in 20th Century)	3
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4

GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
GERMAN 362	Topics in German Literature	3-4	INTL ST/ED POL 335	Globalization and Education	3
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
GERMAN 372	Topics in German Culture (Oesterreich: Landschaft)	3-4	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
GERMAN 372	Topics in German Culture (Deutscher Film)	3-4	INTL ST 603	Topics in Culture in the Age of Globalization	1-4
GERMAN 372	Topics in German Culture (Green Germany)	3-4	INTL ST 620	Topics in International Studies	1-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4	ITALIAN 230	Modern Italian Culture	3
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3	ITALIAN 322	Introduction to Italian Literature	3
GERMAN/ COM ARTS 655	German Film	3	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3
HIST SCI 339	Technology and Its Critics Since World War II	3	ITALIAN/ COM ARTS 460	Italian Film	3
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4	ITALIAN 637	La Poesia del Novecento	3
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4	JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3	JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3	JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
HISTORY 241	Latin America from 1780 to 1940	4	JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4
HISTORY 242	Modern Latin America, 1898 to the Present	4	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
HISTORY 335	Korean History, 1945 to present	3-4	JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
HISTORY/ GEN&WS 392	Women in History	3-4	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
HISTORY 403	Immigration and Assimilation in American History	3-4	JOURN 620	International Communication	4
HISTORY 420	Russian Social and Intellectual History	3-4	JOURN 621	Mass Communication in Developing Nations	4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	L I S 201	The Information Society	4
HISTORY 475	European Social History, 1914-Present	3-4	LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3
HISTORY 503	Irish and Scottish Migrations	3	LCA 311	Modern Indian Literatures	3
HISTORY 514	European Cultural History Since 1870	3-4	LCA/RELIG ST 357	Literatures of Muslim Societies	3
HISTORY 533	Multi-Racial Societies in Latin America	3-4	LCA 361	Survey of Indonesian Cultures	3
			LCA/RELIG ST 402	Thought of Gandhi	3
			LCA 403	Southeast Asian Literature	3
			LCA/ART HIST 428	Visual Cultures of South Asia	3
			LCA 441	Language and Society in Southeast Asia	3
			LCA 579	Fiction and Ethnography in Turkey	3

LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
LCA LANG 616	Modern Thai Literature: The Novel	3	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LCA LANG 617	Thai Poetry	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LCA LANG 618	Thai Prose Literature: The Short Story	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LCA LANG 654	Advanced Readings in Hindi Literature	3	LITTRANS 368	Modern Japanese Fiction	3
LCA LANG 677	Advanced Readings in Tibetan	3	LITTRANS 373	Topics in Japanese Literature (Evangelion)	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
LITTRANS 211	Modern Indian Literatures in Translation	3	MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
LITTRANS 214	Literatures of Central Asia in Translation	3	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
LITTRANS 220	Chekhov in Translation	3-4	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
LITTRANS 222	Dostoevsky in Translation	3-4	MUSIC 416	Survey of Music in the Twentieth Century	3
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	POLI SCI 363	Literature and Politics	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	PORTUG/ GEN&WS 450	Brazilian Women Writers	3
LITTRANS 240	Soviet Literature in Translation	3-4	PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3	PSYCH 528	Introduction to Cultural Psychology	3
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3	RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3	RELIG ST/ HISTORY 379	Islam in Iran	3
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3	RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3	RELIG ST/ POLI SCI 618	Political Islam	3-4
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	SCAND ST 251	Readings in Norwegian Literature	3-4
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3	SCAND ST 261	Readings in Swedish Literature	3-4
LITTRANS 301	Modern Indonesian Literature in Translation	3	SCAND ST 271	Readings in Danish Literature	3-4
LITTRANS 304	Southeast Asian Literature in Translation	3	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3	SCAND ST 420	The Woman in Scandinavian Literature	4
LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust)	3	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
			SCAND ST 427	Contemporary Scandinavian Literature	4
			SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3





AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4	AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3	AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFRICAN 412	Contemporary African Fiction	3-4	AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4	AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFRICAN/ FOLKLORE 411	African Poetry	3-4	AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFRICAN/ FRENCH 440	African/Francophone Film	3	AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3	AFROAMER/ GEN&WS 333	Black Feminisms	3
AFRICAN 453	Modern African Literature in English	3-4	AFROAMER 337	The Harlem Renaissance	3
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4	AFROAMER 338	The Black Arts Movement	3
AFRICAN 500	Language and Society in Africa	3-4	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFRICAN 609	Advanced Topics in Global Black Music Studies	3	AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3	AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER 265	African-American Autobiography	3	AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	AFROAMER 456	Soul Music and the African American Freedom Movement	3
AFROAMER 271	Selected Topics in African American Culture	3	AFROAMER 469	Interdisciplinary Studies in the Arts	1-4
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3	AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3	AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	AFROAMER/ POLI SCI 519	African American Political Theory	3-4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	AFROAMER/HDFS/ SOC WORK 521	African American Families	3
AFROAMER 302	Undergraduate Studies in Afro-American History	3	AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER 303	Blacks, Film, and Society	3	AFROAMER 525	Major Authors	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2	AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2	AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2	AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2	AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
			AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
			AFROAMER 631	Colloquium in Afro-American History	3

AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3	ATM OCN 100	Weather and Climate	3
AFROAMER 669	Interdisciplinary Studies in the Arts	1-4	ATM OCN 101	Weather and Climate	4
AFROAMER 671	Selected Topics in Afro-American History	3	ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
AFROAMER 673	Selected Topics in Afro-American Society	3	ATM OCN/ ENVIR ST 520	Bioclimatology	3
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3	ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3
AFROAMER 675	Selected Topics in Afro-American Culture	3	ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3	BOTANY 240	Plants and Humans	3
AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3	C&E SOC/SOC 245	Technology and Society	3
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3	C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3	C&E SOC/SOC/ URB R PL 617	Community Development	3
ANTHRO 327	Peoples of the Andes Today	3	CHICLA/ HISTORY 462	The American West Since 1850	3-4
ANTHRO 330	Topics in Ethnology (SE Asia)	3-4	CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3
ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4	CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
ANTHRO 330	Topics in Ethnology (Brazil)	3-4	COM ARTS 346	Critical Internet Studies	3
ANTHRO 350	Political Anthropology	3-4	COM ARTS 350	Introduction to Film	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	COM ARTS 352	Film History to 1960	3
ANTHRO 358	Anthropology of China	3	COM ARTS 371	Communication and Conflict Resolution	3
ANTHRO 365	Medical Anthropology	3	COM ARTS 372	Rhetoric of Campaigns and Revolutions	3
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4	COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3
ANTHRO/LCA 462	Anthropology of South Asia	3	COM ARTS 455	French Film	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3	COM ARTS 456	Russian and Soviet Film	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4	COM ARTS 458	Global Media Cultures	3
ANTHRO 677	Public Monuments and Symbols	3	COM ARTS/ ITALIAN 460	Italian Film	3
ART HIST 350	19th Century Painting in Europe	3-4	COM ARTS 470	Contemporary Political Discourse	3
ART HIST 351	20th Century Art in Europe	3-4	COM ARTS 557	Contemporary Media Industries	3
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4	COM ARTS 577	Dynamics of Online Relationships	3
ART HIST 357	European Architecture: The Nineteenth Century	3-4	COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3
ART HIST 358	European Architecture: The Modern Movements	3-4	COMP LIT 375	Literature and Related Disciplines	3-4
ART HIST 371	Chinese Painting	3-4	COMP LIT 379	Literature and Ethnic Experience	3-4
ART HIST 372	Arts of Japan	3-4	DS 639/ LAND ARC DS 639	Culture and Built Environment	3
ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3
ART HIST 454	Art in Germany, 1900-1945	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3
ART HIST 479	Art and History in Africa	3-4	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3			

E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
E ASIAN 352	Survey of Chinese Literature	3	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
E ASIAN 354	Survey of Japanese Literature	3	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
ECON 330	Money and Banking	4	ENVIR ST 539	Air Resources Science and Policy	3
ECON 364	Survey of International Economics	3-4	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
ECON 464	International Trade and Finance	3-4	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3
ECON/HISTORY 466	The American Economy Since 1865	3-4	ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3
ECON 467	International Industrial Organizations	3-4	F&W ECOL 318	Principles of Wildlife Ecology	3
ECON 475	Economics of Growth	3-4	F&W ECOL 410	Principles of Silviculture	3
ECON/A A E 567	Public Finance in Less Developed Countries	3	F&W ECOL 450	Communities and Forests	3
ED POL 150	Education and Public Policy (Human Rights & Education)	3	F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3
ED POL/INTL ST 335	Globalization and Education	3	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
ED POL 340	Comparative Education	3	FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
ED POL/ ANTHRO 570	Anthropology and Education	3	FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3	FOLKLORE 510	Folklore Theory	3
ED POL 675	Introduction to Comparative and International Education	3	FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3
ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3	FOLKLORE 560	Folklore in a Digital Age	3
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3	FRENCH 211	French Interdisciplinary Studies	3
ENGL 352	Modernist Poetry	3	FRENCH 240	Immigration and Expression	3
ENGL 353	British Literature since 1900	3	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
ENGL 453	Topic in British Literature and Culture since 1900	3	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	FRENCH 322	Introduction to Literature of Modernity	3
ENGL/THEATRE 575	British Drama, 1914 to Present	3	FRENCH 325	Visual Culture in French/ Francophone Studies	3
ENVIR ST/ILS 126	Principles of Environmental Science	4	FRENCH 348	Modernity Studies	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3	FRENCH 449	Francophone Modernity Studies	3
ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3	FRENCH 465	French/Francophone Film	3
ENVIR ST/BSE 367	Renewable Energy Systems	3			
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2			
ENVIR ST/N E 373	Nuclear Energy and the Environment	3			

FRENCH 467	Aspects of Contemporary French Literature	3	GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
FRENCH 472	French/Francophone Literature and Women	3	GEOG/ENVIR ST 537	Culture and Environment	4
FRENCH 595	Theory and Practice of French/Francophone Drama	4	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEN&WS/ENGL 250	Women in Literature	3	GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3	GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3	GEOSCI/ ENVIR ST 106	Environmental Geology	3
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3	GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	GEOSCI/ ENVIR ST 411	Energy Resources	3
GEN&WS 420	Women in Cross-Societal Perspective	3	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3
GEN&WS 424	Women's International Human Rights	3	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3	GERMAN 278	Topics in German Culture (Culture in 20th Century)	3
GEN&WS/ URB R PL 644	International Development and Gender	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4
GEOG 101	Introduction to Human Geography	4	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3
GEOG/ENVIR ST 120	Introduction to the Earth System	3	GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5	GERMAN 362	Topics in German Literature (Musik)	3-4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4
GEOG 301	Geography of Social Organization	3	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4
GEOG/URB R PL 305	Introduction to the City	3-4	GERMAN 372	Topics in German Culture (Oesterreich)	3-4
GEOG 318	Introduction to Geopolitics	3	GERMAN 372	Topics in German Culture (Deutscher Film)	3-4
GEOG 319	Environmental Evaluation and Adaptation	3	GERMAN 372	Topics in German Culture (Green Germany)	3-4
GEOG 321	Climatology	3	GERMAN 372	Topics in German Culture (China-German Point of View)	3-4
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3	GERMAN 411	Kultur des 20. Jahrhunderts	3-4
GEOG/BOTANY 338	Environmental Biogeography	3	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4
GEOG/ENVIR ST 339	Environmental Conservation	4	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3
GEOG 340	World Regions in Global Context	3	GERMAN/ COM ARTS 655	German Film	3
GEOG 349	Europe	3	HIST SCI 337	History of Technology	3
GEOG 355	Africa, South of the Sahara	3	HIST SCI 339	Technology and Its Critics Since World War II	3
GEOG 358	Human Geography of Southeast Asia	3	HIST SCI/ ENVIR ST 353	History of Ecology	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3	HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4			
GEOG 475	Topics in Geography	1-4			
GEOG/URB R PL 506	Historical Geography of European Urbanization	3			
GEOG 510	Economic Geography	4			

HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	HORT 370	World Vegetable Crops	3
HISTORY 201	The Historian's Craft (various)	3-4	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4	INTL BUS 200	International Business	3
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4	INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4	INTL BUS/A A E/ ECON 462	Latin American Economic Development	3
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3	INTL BUS 365	Contemporary Topics (International Perspectives)	1-3
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
HISTORY 241	Latin America from 1780 to 1940	4	INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	3-4
HISTORY 242	Modern Latin America, 1898 to the Present	4	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	INTL ST/ED POL 335	Globalization and Education	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	INTL ST/A A E 373	Globalization, Poverty and Development	3
HISTORY 319	The Vietnam Wars	3-4	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
HISTORY 335	Korean History, 1945 to present	3-4	INTL ST 401	Topics in Global Security	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
HISTORY 357	The Second World War	3-4	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
HISTORY/ GEN&WS 392	Women in History	3-4	INTL ST 404	Topics in Global Environment	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4	INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3
HISTORY 418	History of Russia	3-4	INTL ST/ POLI SCI 431	Contentious Politics	3-4
HISTORY 419	History of Soviet Russia	3-4	INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4
HISTORY 420	Russian Social and Intellectual History	3-4	INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4	INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	INTL ST 501	Study Abroad Topics in Global Security	1-6
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
HISTORY/ E A STDS 454	Samurai: History and Image	3-4	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	INTL ST 504	Study Abroad Topics in Global Environment	1-6
HISTORY 475	European Social History, 1914- Present	3-4	INTL ST 520	Study Abroad Topics in International Studies	1-6
HISTORY 503	Irish and Scottish Migrations	3	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3
HISTORY 514	European Cultural History Since 1870	3-4	INTL ST 601	Topics in Global Security	1-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4	INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4

INTL ST 603	Topics in Culture in the Age of Globalization	1-4	LCA 403	Southeast Asian Literature	3
INTL ST 604	Topics in Global Environment	1-4	LCA/ART HIST 428	Visual Cultures of South Asia	3
INTL ST 620	Topics in International Studies	1-4	LCA 441	Language and Society in Southeast Asia	3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	LCA/HISTORY 450	Making of Modern South Asia	3-4
ITALIAN 230	Modern Italian Culture	3	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
ITALIAN 322	Introduction to Italian Literature	3	LCA 579	Fiction and Ethnography in Turkey	3
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3	LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3	LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3	LCA LANG 617	Thai Poetry	3
ITALIAN/COM ARTS 460	Italian Film	3	LCA LANG 618	Thai Prose Literature: The Short Story	3
ITALIAN 637	La Poesia del Novecento	3	LCA LANG 654	Advanced Readings in Hindi Literature	3
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3	LCA LANG 677	Advanced Readings in Tibetan	3
JEWISH/LITTRANS 367	Israeli Fiction in Translation	3-4	LEGAL ST 409	Human Rights in Law and Society	3
JEWISH/ANTHRO/RELIG ST 372	Jews of Central and Eastern Europe	3-4	LEGAL ST/L I S 663	Introduction to Cyberlaw	3
JEWISH/HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4	LINGUIS/ANTHRO/LCA 430	Language and Culture	3-4
JEWISH/PHILOS 442	Moral Philosophy and the Holocaust	3	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
JEWISH/CURRIC/HISTORY 515	Holocaust: History, Memory and Education	3	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3	LITTRANS/GEN&WS 205	Women in Russian Literature in Translation	3-4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3	LITTRANS 211	Modern Indian Literatures in Translation	3
JEWISH/POLI SCI 665	Israeli Politics and Society	3-4	LITTRANS 214	Literatures of Central Asia in Translation	3
JOURN/COM ARTS/LSC 617	Health Communication in the Information Age	3	LITTRANS 220	Chekhov in Translation	3-4
JOURN 618	Mass Communication and Political Behavior	4	LITTRANS 222	Dostoevsky in Translation	3-4
JOURN 620	International Communication	4	LITTRANS 224	Tolstoy in Translation	3-4
JOURN 621	Mass Communication in Developing Nations	4	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
L I S 201	The Information Society	4	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
L I S 661	Information Ethics and Policy	3	LITTRANS 240	Soviet Literature in Translation	3-4
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3
LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3	LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3
LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
LCA 311	Modern Indian Literatures	3	LITTRANS/RELIG ST 257	Literatures of Muslim Societies in Translation	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3	LITTRANS/GEN&WS 270	German Women Writers in Translation	3
LCA 361	Survey of Indonesian Cultures	3	LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3
LCA/RELIG ST 402	Thought of Gandhi	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4

LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3	POLI SCI 266	The Development of Modern Western Political Thought	3-4
LITTRANS 301	Modern Indonesian Literature in Translation	3	POLI SCI 313	Bargaining in the Global Economy	3-4
LITTRANS 304	Southeast Asian Literature in Translation	3	POLI SCI/INTL ST 325	Social Movements and Revolutions in Latin America	3-4
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3	POLI SCI/INTL ST 327	Indian Politics in Comparative Perspective	3
LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2	POLI SCI 333	International Politics of the Middle East	3-4
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4	POLI SCI 340	The European Union: Politics and Political Economy	3-4
LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4	POLI SCI 346	China in World Politics	3-4
LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4	POLI SCI 347	Terrorism	3
LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4	POLI SCI 350	International Political Economy	3-4
LITTRANS 368	Modern Japanese Fiction	3	POLI SCI 351	Politics of the World Economy	3-4
LITTRANS 373	Topics in Japanese Literature (Evangelion)	3	POLI SCI 353	The Third World in the International System	3-4
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3	POLI SCI 354	International Institutions and World Order	3-4
LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3	POLI SCI 356	Principles of International Law	3-4
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3	POLI SCI 359	American Foreign Policy	3-4
LITTRANS 473	Polish Literature (in Translation) since 1863	3	POLI SCI 363	Literature and Politics	3-4
MARKETNG/INTL BUS 420	Global Marketing Strategy	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
MED HIST 526	Medical Technology and the Body	3	POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4
MED HIST/HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3	POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	POLI SCI 421	The Challenge of Democratization	3-4
MUSIC/FOLKLORE 401	Musical Cultures of the World	3	POLI SCI/INTL ST 431	Contentious Politics	3-4
MUSIC/FOLKLORE 402	Musical Cultures of the World	3	POLI SCI 432	Comparative Legal Institutions	3-4
MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3	POLI SCI/INTL ST 434	The Politics of Human Rights	3-4
MUSIC 416	Survey of Music in the Twentieth Century	3	POLI SCI 438	Comparative Political Culture	3-4
NUTR SCI/AGRONOMY/ENTOM 203	Introduction to Global Health	3	POLI SCI 460	Topics in Political Philosophy ((Economic Inequality))	3-4
PHILOS/ENVIR ST 441	Environmental Ethics	3-4	POLI SCI 534	Socialism and Transitions to the Market	3-4
PHILOS 555	Political Philosophy	3	POLI SCI 561	Radical Political Theory	3-4
PHILOS 557	Issues in Social Philosophy	3	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3
PHYSICS/ENVIR ST 472	Scientific Background to Global Environmental Problems	3	POLI SCI 637	Comparative Political Economy	3-4
			POLI SCI 652	The Politics of Development	3-4
			POLI SCI 654	Politics of Revolution	3-4
			POLI SCI/JEWISH 665	Israeli Politics and Society	3-4
			POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4
			PORTUG/GEN&WS 450	Brazilian Women Writers	3
			PORTUG 467	Survey of Portuguese Literature since 1825	3
			PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3



POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3	SOC 170	Population Problems	3-4
PSYCH 528	Introduction to Cultural Psychology	3	SOC 225	Contemporary Chinese Society	3
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
RELIG ST/ HISTORY 379	Islam in Iran	3	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4	SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3
RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4	SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3	SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
RELIG ST/ POLI SCI 618	Political Islam	3-4	SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SCAND ST 251	Readings in Norwegian Literature	3-4	SOC 620	Comparative Racial Inequality	3
SCAND ST 261	Readings in Swedish Literature	3-4	SOC/C&E SOC 623	Gender, Society, and Politics	3
SCAND ST 271	Readings in Danish Literature	3-4	SOC 626	Social Movements	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SCAND ST 420	The Woman in Scandinavian Literature	4	SOC 632	Sociology of Organizations	3-4
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SOC 633	Social Stratification	3
SCAND ST 427	Contemporary Scandinavian Literature	4	SOC/LCA/ RELIG ST 634	Social Structure of India	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SOC 640	Sociology of the Family	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SOC 646	Race and Ethnic Relations	3
SCAND ST 437	Modern Scandinavian Drama	4	SOC/ED POL 648	Sociology of Education	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4	SOC/C&E SOC 649	Sociology of Work and Employment	3
SCAND ST 466	Greenland - Past, Present, and Future	3	SOC/C&E SOC 652	Sociology of Economic Institutions	3
SCAND ST 476	Scandinavian Life and Civilization II	4	SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3	SOC/ECON 663	Population and Society	3
SLAVIC 242	Literatures and Cultures of Eastern Europe	3	SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
SLAVIC 302	Zarys historii literatury polskiej	3	SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3
SLAVIC 321	Fourth Year Russian I	4	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SLAVIC 322	Fourth Year Russian II	4	SPANISH 324	Survey of Modern Spanish Literature	3
SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	SPANISH 326	Survey of Spanish American Literature	3
SLAVIC 405	Women in Russian Literature	3-4	SPANISH/ INTL BUS 329	Spanish for Business	3
SLAVIC 420	Chekhov	3-4	SPANISH 361	Spanish Civilization	3
SLAVIC 434	Contemporary Russian Culture	3	SPANISH 363	Spanish American Civilization	3
SLAVIC 439	Russia Today in Literature and Film	4	SPANISH 453	Literature of the Twentieth Century	3
SLAVIC 440	Soviet Literature	3-4	SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SLAVIC 449	Istorija srpske i hrvatske literature	3	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3
SLAVIC 454	Moderna srpska i hrvatska literatura	3	SPANISH 461	The Spanish American Short Story	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3	SPANISH 462	Spanish American Theater and Drama	3
			SPANISH 463	The Spanish American Novel	3
			SPANISH 464	Spanish American Poetry and Essay	3

SPANISH 465	Literature and Film in Spanish America	3	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3	INTL ST 401	Topics in Global Security	3-4
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3	INTL ST/ POLI SCI 431	Contentious Politics	3-4
THEATRE 327	History of Costume for the Stage	3	INTL ST 501	Study Abroad Topics in Global Security	1-6
THEATRE 351	Fundamentals of Asian Stage Discipline	3	INTL ST 601	Topics in Global Security	1-4
THEATRE 420	Theatre and Society	3	LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
THEATRE 424	Contemporary World Theatre and Dramatic Literature	3	PHILOS 555	Political Philosophy	3
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3	PHILOS 557	Issues in Social Philosophy	3
THEATRE 526	The Theatres of China and Japan	3	POLI SCI 343	Theories of International Security	3-4
THEATRE/ SLAVIC 532	History of Russian Theatre	3	POLI SCI 353	The Third World in the International System	3-4
THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3	POLI SCI 354	International Institutions and World Order	3-4
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3	POLI SCI 359	American Foreign Policy	3-4
ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2	POLI SCI 421	The Challenge of Democratization	3-4
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3	POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3	POLI SCI 508	American National Security: Policy and Process	3-4
ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3	POLI SCI 654	Politics of Revolution	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3	SOC 626	Social Movements	3
ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3			

## GLOBAL SECURITY

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

### Global Security Core

Two courses from:

Code	Title	Credits
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3

### Global Security Issues

15 credits from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
ANTHRO 330	Topics in Ethnology	3-4
ANTHRO 365	Medical Anthropology	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
CHICLA/ HISTORY 462	The American West Since 1850	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3

COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3	HIST SCI/ ENVIR ST 353	History of Ecology	3
COM ARTS 371	Communication and Conflict Resolution	3	HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	HISTORY 201	The Historian's Craft (The Catholic Church)	3-4
COM ARTS 470	Contemporary Political Discourse	3	HISTORY 201	The Historian's Craft (WWII Eastern Europe)	3-4
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	HISTORY 201	The Historian's Craft (Dems & Dictators in Spain & Italy)	3-4
ECON 467	International Industrial Organizations	3-4	HISTORY 201	The Historian's Craft (Shanghai)	3-4
ED POL 150	Education and Public Policy (Human Rights & Education)	3	HISTORY 201	The Historian's Craft (How do Empires End?)	3-4
ED POL 340	Comparative Education	3	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	HISTORY 223	Explorations in European History (H) (War, Religion, & Race)	3-4
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3	HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3	HISTORY 319	The Vietnam Wars	3-4
F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3	HISTORY 335	Korean History, 1945 to present	3-4
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GEN&WS 424	Women's International Human Rights	3	HISTORY 357	The Second World War	3-4
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4	HISTORY 418	History of Russia	3-4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	HISTORY 419	History of Soviet Russia	3-4
GEOG 318	Introduction to Geopolitics	3	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
GEOG/ENVIR ST 339	Environmental Conservation	4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
GEOG 340	World Regions in Global Context	3	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
GEOG 349	Europe	3	HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
GEOG 355	Africa, South of the Sahara	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
GEOG 358	Human Geography of Southeast Asia	3	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Political Economy & Liberal)	3
GEOSCI/ ENVIR ST 411	Energy Resources	3	INTL BUS/A A E/ ECON 462	Latin American Economic Development	3
HIST SCI 337	History of Technology	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
HIST SCI 339	Technology and Its Critics Since World War II	3	INTL ST/ED POL 335	Globalization and Education	3
			INTL ST 401	Topics in Global Security	3-4
			INTL ST/ POLI SCI 431	Contentious Politics	3-4

INTL ST 501	Study Abroad Topics in Global Security	1-6	POLI SCI 401	Selected Topics in Political Science (Nationalism & Ethnic Conflict)	3-4
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	POLI SCI 421	The Challenge of Democratization	3-4
INTL ST 601	Topics in Global Security	1-4	POLI SCI 432	Comparative Legal Institutions	3-4
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	POLI SCI 438	Comparative Political Culture	3-4
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
JOURN 618	Mass Communication and Political Behavior	4	POLI SCI 455	African International Relations	3-4
JOURN 621	Mass Communication in Developing Nations	4	POLI SCI 508	American National Security: Policy and Process	3-4
LCA 300	Topics in Languages and Cultures of Asia (Gender and Sexuality in)	3	POLI SCI 529	Arab-Israeli Conflict	3-4
LCA/HISTORY 450	Making of Modern South Asia	3-4	POLI SCI 561	Radical Political Theory	3-4
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3
LEGAL ST 409	Human Rights in Law and Society	3	POLI SCI 637	Comparative Political Economy	3-4
LEGAL ST/ I S 663	Introduction to Cyberlaw	3	POLI SCI 654	Politics of Revolution	3-4
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3	POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4
LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust. )	3	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4
MED HIST 526	Medical Technology and the Body	3	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3	RELIG ST/ POLI SCI 618	Political Islam	3-4
PHILOS/ ENVIR ST 441	Environmental Ethics	3-4	SOC 225	Contemporary Chinese Society	3
PHILOS 555	Political Philosophy	3	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
PHILOS 557	Issues in Social Philosophy	3	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
POLI SCI 266	The Development of Modern Western Political Thought	3-4	SOC 620	Comparative Racial Inequality	3
POLI SCI 333	International Politics of the Middle East	3-4	SOC 626	Social Movements	3
POLI SCI 334	Russian Politics	3-4	SOC/ECON 663	Population and Society	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4			
POLI SCI 343	Theories of International Security	3-4			
POLI SCI 345	Conflict Resolution	3-4			
POLI SCI 346	China in World Politics	3-4			
POLI SCI 347	Terrorism	3			
POLI SCI 348	Analysis of International Relations	3-4			
POLI SCI 353	The Third World in the International System	3-4			
POLI SCI 354	International Institutions and World Order	3-4			
POLI SCI 356	Principles of International Law	3-4			
POLI SCI 359	American Foreign Policy	3-4			
POLI SCI 377	Nuclear Weapons and World Politics	3-4			
POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4			

### Electives

Students typically take three or four elective courses in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Students must take enough elective credits to attain the required 35 total credits in the major. Choose from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3

A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3	AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3	AFROAMER 302	Undergraduate Studies in Afro- American History	3
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3	AFROAMER 303	Blacks, Film, and Society	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3	AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFRICAN 300	African Literature in Translation	3	AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFRICAN 303	African Literature and Visual Culture	3	AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4	AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3	AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFRICAN 412	Contemporary African Fiction	3-4	AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4	AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFRICAN/ FOLKLORE 411	African Poetry	3-4	AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFRICAN/ FRENCH 440	African/Francophone Film	3	AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3	AFROAMER/ GEN&WS 333	Black Feminisms	3
AFRICAN 453	Modern African Literature in English	3-4	AFROAMER 337	The Harlem Renaissance	3
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4	AFROAMER 338	The Black Arts Movement	3
AFRICAN 500	Language and Society in Africa	3-4	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFRICAN 609	Advanced Topics in Global Black Music Studies	3	AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3	AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER 265	African-American Autobiography	3	AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	AFROAMER 456	Soul Music and the African American Freedom Movement	3
AFROAMER 271	Selected Topics in African American Culture	3	AFROAMER 469	Interdisciplinary Studies in the Arts	1-4
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3	AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3	AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	AFROAMER/ POLI SCI 519	African American Political Theory	3-4
			AFROAMER/HDFS/ SOC WORK 521	African American Families	3

AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	ART HIST 351	20th Century Art in Europe	3-4
AFROAMER 525	Major Authors	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
AFROAMER/ ED POL 567	History of African American Education	3	ART HIST 357	European Architecture: The Nineteenth Century	3-4
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	ART HIST 358	European Architecture: The Modern Movements	3-4
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3	ART HIST 371	Chinese Painting	3-4
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3	ART HIST 372	Arts of Japan	3-4
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4
AFROAMER 631	Colloquium in Afro-American History	3	ART HIST 454	Art in Germany, 1900-1945	3-4
AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3	ART HIST 479	Art and History in Africa	3-4
AFROAMER 669	Interdisciplinary Studies in the Arts	1-4	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER 671	Selected Topics in Afro-American History	3	ATM OCN 100	Weather and Climate	3
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	ATM OCN 101	Weather and Climate	4
AFROAMER 673	Selected Topics in Afro-American Society	3	ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3	ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
AFROAMER 675	Selected Topics in Afro-American Culture	3	ATM OCN/ ENVIR ST 520	Bioclimatology	3
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3	ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3
AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3	ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3	BOTANY 240	Plants and Humans	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3	C&E SOC/SOC 245	Technology and Society	3
ANTHRO 327	Peoples of the Andes Today	3	C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
ANTHRO 330	Topics in Ethnology (SE Asia)	3-4	C&E SOC/SOC/ URB R PL 617	Community Development	3
ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4	CHICLA/ HISTORY 462	The American West Since 1850	3-4
ANTHRO 330	Topics in Ethnology (Brazil)	3-4	CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3
ANTHRO 350	Political Anthropology	3-4	CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3
ANTHRO 358	Anthropology of China	3	COM ARTS 346	Critical Internet Studies	3
ANTHRO 365	Medical Anthropology	3	COM ARTS 350	Introduction to Film	3
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4	COM ARTS 352	Film History to 1960	3
ANTHRO/LCA 462	Anthropology of South Asia	3	COM ARTS 371	Communication and Conflict Resolution	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3	COM ARTS 372	Rhetoric of Campaigns and Revolutions	3
ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4	COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3
ANTHRO 677	Public Monuments and Symbols	3	COM ARTS 455	French Film	3
ART HIST 350	19th Century Painting in Europe	3-4	COM ARTS 456	Russian and Soviet Film	3
			COM ARTS 458	Global Media Cultures	3

COM ARTS/ ITALIAN 460	Italian Film	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
COM ARTS 470	Contemporary Political Discourse	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
COM ARTS 557	Contemporary Media Industries	3	ENVIR ST/ILS 126	Principles of Environmental Science	4
COM ARTS 577	Dynamics of Online Relationships	3	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
COMP LIT 375	Literature and Related Disciplines	3-4	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
COMP LIT 379	Literature and Ethnic Experience	3-4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
DS 639/ LAND ARC DS 639	Culture and Built Environment	3	ENVIR ST/BSE 367	Renewable Energy Systems	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3	ENVIR ST/ M&ENVTX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3	ENVIR ST/N E 373	Nuclear Energy and the Environment	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
E ASIAN 352	Survey of Chinese Literature	3	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
E ASIAN 354	Survey of Japanese Literature	3	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3	ENVIR ST 539	Air Resources Science and Policy	3
ECON 330	Money and Banking	4	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
ECON 364	Survey of International Economics	3-4	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3
ECON 464	International Trade and Finance	3-4	ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3
ECON/HISTORY 466	The American Economy Since 1865	3-4	F&W ECOL 318	Principles of Wildlife Ecology	3
ECON 467	International Industrial Organizations	3-4	F&W ECOL 410	Principles of Silviculture	3
ECON 475	Economics of Growth	3-4	F&W ECOL 450	Communities and Forests	3
ECON/A A E 567	Public Finance in Less Developed Countries	3	F&W ECOL/ ENVIR ST/ HISTORY 452	World Forest History	3
ED POL 150	Education and Public Policy (Human Rights & Education)	3	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
ED POL/INTL ST 335	Globalization and Education	3	FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
ED POL 340	Comparative Education	3	FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3
ED POL/ ANTHRO 570	Anthropology and Education	3	FOLKLORE 510	Folklore Theory	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3	FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3
ED POL 675	Introduction to Comparative and International Education	3			
ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3			
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3			
ENGL 352	Modernist Poetry	3			
ENGL 353	British Literature since 1900	3			
ENGL 453	Topic in British Literature and Culture since 1900	3			

FOLKLORE 560	Folklore in a Digital Age	3	GEOG 319	Environmental Evaluation and Adaptation	3
FRENCH 211	French Interdisciplinary Studies	3	GEOG 321	Climatology	3
FRENCH 240	Immigration and Expression	3	GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GEOG/BOTANY 338	Environmental Biogeography	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GEOG/ENVIR ST 339	Environmental Conservation	4
FRENCH 322	Introduction to Literature of Modernity	3	GEOG 340	World Regions in Global Context	3
FRENCH 325	Visual Culture in French/ Francophone Studies	3	GEOG 349	Europe	3
FRENCH 348	Modernity Studies	3	GEOG 355	Africa, South of the Sahara	3
FRENCH 433	Readings in Twentieth and Twenty- First Century Literature	3	GEOG 358	Human Geography of Southeast Asia	3
FRENCH 449	Francophone Modernity Studies	3	GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
FRENCH 465	French/Francophone Film	3	GEOG 475	Topics in Geography	1-4
FRENCH 467	Aspects of Contemporary French Literature	3	GEOG/URB R PL 506	Historical Geography of European Urbanization	3
FRENCH 472	French/Francophone Literature and Women	3	GEOG 510	Economic Geography	4
FRENCH 595	Theory and Practice of French/ Francophone Drama	4	GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
GEN&WS/ENGL 250	Women in Literature	3	GEOG/ENVIR ST 537	Culture and Environment	4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3	GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3	GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	GEOSCI/ ENVIR ST 106	Environmental Geology	3
GEN&WS 420	Women in Cross-Societal Perspective	3	GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
GEN&WS 424	Women's International Human Rights	3	GEOSCI/ ENVIR ST 411	Energy Resources	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3
GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3
GEN&WS/ URB R PL 644	International Development and Gender	3	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3
GEOG 101	Introduction to Human Geography	4	GERMAN 278	Topics in German Culture (Culture in 20th Century)	3
GEOG/ENVIR ST 120	Introduction to the Earth System	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4
GEOG/ENVIR ST 127	Physical Systems of the Environment	5	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3
GEOG 301	Geography of Social Organization	3	GERMAN 362	Topics in German Literature (Musik)	3-4
GEOG/URB R PL 305	Introduction to the City	3-4	GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4
GEOG 318	Introduction to Geopolitics	3	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4
			GERMAN 372	Topics in German Culture (Oesterreich)	3-4



GERMAN 372	Topics in German Culture (Deutscher Film)	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
GERMAN 372	Topics in German Culture (Green Germany)	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
GERMAN 372	Topics in German Culture (China-German Point of View)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
GERMAN/ COM ARTS 655	German Film	3	HISTORY 475	European Social History, 1914-Present	3-4
HIST SCI 337	History of Technology	3	HISTORY 503	Irish and Scottish Migrations	3
HIST SCI 339	Technology and Its Critics Since World War II	3	HISTORY 514	European Cultural History Since 1870	3-4
HIST SCI/ ENVIR ST 353	History of Ecology	3	HISTORY 533	Multi-Racial Societies in Latin America	3-4
HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3	HORT 370	World Vegetable Crops	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3
HISTORY 201	The Historian's Craft (various)	3-4	INTL BUS 200	International Business	3
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4	INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4	INTL BUS/A A E/ ECON 462	Latin American Economic Development	3
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4	INTL BUS 365	Contemporary Topics (International Perspectives)	1-3
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)	3	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3
HISTORY 241	Latin America from 1780 to 1940	4	INTL ST/ED POL 335	Globalization and Education	3
HISTORY 242	Modern Latin America, 1898 to the Present	4	INTL ST/A A E 373	Globalization, Poverty and Development	3
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	INTL ST 401	Topics in Global Security	3-4
HISTORY 319	The Vietnam Wars	3-4	INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
HISTORY 335	Korean History, 1945 to present	3-4	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	INTL ST 404	Topics in Global Environment	3-4
HISTORY 357	The Second World War	3-4	INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3
HISTORY/ GEN&WS 392	Women in History	3-4	INTL ST/ POLI SCI 431	Contentious Politics	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4	INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4
HISTORY 418	History of Russia	3-4	INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4
HISTORY 419	History of Soviet Russia	3-4			

INTL ST 501	Study Abroad Topics in Global Security	1-6	JOURN 621	Mass Communication in Developing Nations	4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	L I S 201	The Information Society	4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6	L I S 661	Information Ethics and Policy	3
INTL ST 504	Study Abroad Topics in Global Environment	1-6	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4
INTL ST 520	Study Abroad Topics in International Studies	1-6	LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3
INTL ST 601	Topics in Global Security	1-4	LCA 311	Modern Indian Literatures	3
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	LCA/RELIG ST 357	Literatures of Muslim Societies	3
INTL ST 603	Topics in Culture in the Age of Globalization	1-4	LCA 361	Survey of Indonesian Cultures	3
INTL ST 604	Topics in Global Environment	1-4	LCA/RELIG ST 402	Thought of Gandhi	3
INTL ST 620	Topics in International Studies	1-4	LCA 403	Southeast Asian Literature	3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	LCA/ART HIST 428	Visual Cultures of South Asia	3
ITALIAN 230	Modern Italian Culture	3	LCA 441	Language and Society in Southeast Asia	3
ITALIAN 322	Introduction to Italian Literature	3	LCA/HISTORY 450	Making of Modern South Asia	3-4
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3	LCA 579	Fiction and Ethnography in Turkey	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3	LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ITALIAN/ COM ARTS 460	Italian Film	3	LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3
ITALIAN 637	La Poesia del Novecento	3	LCA LANG 617	Thai Poetry	3
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3	LCA LANG 618	Thai Prose Literature: The Short Story	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4	LCA LANG 654	Advanced Readings in Hindi Literature	3
JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4	LCA LANG 677	Advanced Readings in Tibetan	3
JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4	LEGAL ST 409	Human Rights in Law and Society	3
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3	LEGAL ST/L I S 663	Introduction to Cyberlaw	3
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3	LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	LITTRANS 211	Modern Indian Literatures in Translation	3
JOURN 618	Mass Communication and Political Behavior	4	LITTRANS 214	Literatures of Central Asia in Translation	3
JOURN 620	International Communication	4	LITTRANS 220	Chekhov in Translation	3-4
			LITTRANS 222	Dostoevsky in Translation	3-4
			LITTRANS 224	Tolstoy in Translation	3-4
			LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
			LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4

LITTRANS 240	Soviet Literature in Translation	3-4	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3	MUSIC 416	Survey of Music in the Twentieth Century	3
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3	PHILOS 555	Political Philosophy	3
LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3	PHILOS 557	Issues in Social Philosophy	3
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3	POLI SCI 313	Bargaining in the Global Economy	3-4
LITTRANS 301	Modern Indonesian Literature in Translation	3	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
LITTRANS 304	Southeast Asian Literature in Translation	3	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3	POLI SCI 333	International Politics of the Middle East	3-4
LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2	POLI SCI 340	The European Union: Politics and Political Economy	3-4
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4	POLI SCI 346	China in World Politics	3-4
LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4	POLI SCI 347	Terrorism	3
LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4	POLI SCI 348	Analysis of International Relations	3-4
LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4	POLI SCI 350	International Political Economy	3-4
LITTRANS 368	Modern Japanese Fiction	3	POLI SCI 351	Politics of the World Economy	3-4
LITTRANS 373	Topics in Japanese Literature (Evangelion)	3	POLI SCI 353	The Third World in the International System	3-4
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3	POLI SCI 354	International Institutions and World Order	3-4
LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3	POLI SCI 356	Principles of International Law	3-4
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3	POLI SCI 359	American Foreign Policy	3-4
LITTRANS 473	Polish Literature (in Translation) since 1863	3	POLI SCI 363	Literature and Politics	3-4
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
MED HIST 526	Medical Technology and the Body	3	POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3	POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	POLI SCI/ INTL ST 431	Contentious Politics	3-4
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3	POLI SCI 432	Comparative Legal Institutions	3-4
			POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
			POLI SCI 438	Comparative Political Culture	3-4
			POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
			POLI SCI 455	African International Relations	3-4
			POLI SCI 529	Arab-Israeli Conflict	3-4
			POLI SCI 538	Politics and Policies in the European Union	3-4
			POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3

POLI SCI 652	The Politics of Development	3-4	SLAVIC 322	Fourth Year Russian II	4
POLI SCI 654	Politics of Revolution	3-4	SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4	SLAVIC 405	Women in Russian Literature	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4	SLAVIC 420	Chekhov	3-4
PORTUG/ GEN&WS 450	Brazilian Women Writers	3	SLAVIC 434	Contemporary Russian Culture	3
PORTUG 467	Survey of Portuguese Literature since 1825	3	SLAVIC 439	Russia Today in Literature and Film	4
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3	SLAVIC 440	Soviet Literature	3-4
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3	SLAVIC 449	Istorija srpske i hrvatske literature	3
PSYCH 528	Introduction to Cultural Psychology	3	SLAVIC 454	Moderna srpska i hrvatska literatura	3
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	SLAVIC 472	Historia literatury polskiej po roku 1863	3
RELIG ST/ HISTORY 379	Islam in Iran	3	SOC 170	Population Problems	3-4
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4	SOC 225	Contemporary Chinese Society	3
RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
RELIG ST/ POLI SCI 618	Political Islam	3-4	SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3
SCAND ST 251	Readings in Norwegian Literature	3-4	SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3
SCAND ST 261	Readings in Swedish Literature	3-4	SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SCAND ST 271	Readings in Danish Literature	3-4	SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SOC 620	Comparative Racial Inequality	3
SCAND ST 420	The Woman in Scandinavian Literature	4	SOC/C&E SOC 623	Gender, Society, and Politics	3
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SOC 626	Social Movements	3
SCAND ST 427	Contemporary Scandinavian Literature	4	SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SOC 632	Sociology of Organizations	3-4
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SOC 633	Social Stratification	3
SCAND ST 437	Modern Scandinavian Drama	4	SOC/LCA/ RELIG ST 634	Social Structure of India	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4	SOC 640	Sociology of the Family	3
SCAND ST 466	Greenland - Past, Present, and Future	3	SOC 646	Race and Ethnic Relations	3
SCAND ST 476	Scandinavian Life and Civilization II	4	SOC/ED POL 648	Sociology of Education	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3	SOC/C&E SOC 649	Sociology of Work and Employment	3
SLAVIC 242	Literatures and Cultures of Eastern Europe	3	SOC/C&E SOC 652	Sociology of Economic Institutions	3
SLAVIC 302	Zarys historii literatury polskiej	3	SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SLAVIC 321	Fourth Year Russian I	4	SOC/ECON 663	Population and Society	3
			SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
			SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3
			SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
			SPANISH 324	Survey of Modern Spanish Literature	3
			SPANISH 326	Survey of Spanish American Literature	3
			SPANISH/ INTL BUS 329	Spanish for Business	3

SPANISH 361	Spanish Civilization	3
SPANISH 363	Spanish American Civilization	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 463	The Spanish American Novel	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 465	Literature and Film in Spanish America	3
SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3
SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3
THEATRE 327	History of Costume for the Stage	3
THEATRE 351	Fundamentals of Asian Stage Discipline	3
THEATRE 420	Theatre and Society	3
THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
THEATRE 526	The Theatres of China and Japan	3
THEATRE/ SLAVIC 532	History of Russian Theatre	3
THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3
ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3

**POLITICS AND POLICY IN THE GLOBAL ECONOMY**

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues

pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

**Politics and Policy Core**

Two courses from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/ECON 474	Economic Problems of Developing Areas	3
ECON 364	Survey of International Economics	3-4
ECON 464	International Trade and Finance	3-4
ECON 475	Economics of Growth	3-4
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3
GEN&WS/ URB R PL 644	International Development and Gender	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
INTL ST/A A E 373	Globalization, Poverty and Development	3
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
INTL ST 601	Topics in Global Security (Intl Sec & Global Sys)	1-4
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
POLI SCI 313	Bargaining in the Global Economy	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 652	The Politics of Development	3-4
POLI SCI 654	Politics of Revolution	3-4
POLI SCI 637	Comparative Political Economy	3-4
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
URB R PL/ GEN&WS 644	International Development and Gender	3

**Politics and Policy Issues**

15 credits from:

Code	Title	Credits			
A A E/ENVIR ST 244	The Environment and the Global Economy	3	ED POL 675	Introduction to Comparative and International Education	3
A A E 319	The International Agricultural Economy	3	ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
A A E/ECON 421	Economic Decision Analysis	4	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
A A E/ECON 474	Economic Problems of Developing Areas	3	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3	ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3	GEN BUS 600	Topics on Sustainable Business Practices	3
ANTHRO 330	Topics in Ethnology (Culture/Health in Africa)	3-4	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
ANTHRO 365	Medical Anthropology	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	GEN&WS/ URB R PL 644	International Development and Gender	3
C&E SOC/SOC/ URB R PL 617	Community Development	3	GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
CHICLA/ POLI SCI 302	Mexican-American Politics	3-4	GEOG 302	Economic Geography: Locational Behavior	4
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	GEOG 318	Introduction to Geopolitics	3
COM ARTS 470	Contemporary Political Discourse	3	GEOG 319	Environmental Evaluation and Adaptation	3
E A STDS 301	Social Studies Topics in East Asian Studies (Contemporary Chinese Society)	1-3	GEOG/ENVIR ST 339	Environmental Conservation	4
ECON 330	Money and Banking	4	GEOG 340	World Regions in Global Context	3
ECON 364	Survey of International Economics	3-4	GEOG 349	Europe	3
ECON 464	International Trade and Finance	3-4	GEOG 355	Africa, South of the Sahara	3
ECON/HISTORY 466	The American Economy Since 1865	3-4	GEOG 358	Human Geography of Southeast Asia	3
ECON 467	International Industrial Organizations	3-4	GEOG/URB R PL 506	Historical Geography of European Urbanization	3
ECON 475	Economics of Growth	3-4	GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
ECON/A A E 567	Public Finance in Less Developed Countries	3	GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3
ED POL 150	Education and Public Policy (Human Rights & Education)	3	GEOSCI/ ENVIR ST 411	Energy Resources	3
ED POL/INTL ST 335	Globalization and Education	3	HIST SCI 337	History of Technology	3
ED POL 340	Comparative Education	3	HIST SCI 339	Technology and Its Critics Since World War II	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3			

HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
HISTORY 201	The Historian's Craft (Shanghai Life and Crime)	3-4	MED HIST 526	Medical Technology and the Body	3
HISTORY 201	The Historian's Craft (The Catholic Church)	3-4	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
HISTORY 201	The Historian's Craft (UW-Latin Amer Relations)	3-4	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
HISTORY 335	Korean History, 1945 to present	3-4	PHILOS 555	Political Philosophy	3
HISTORY/ GEN&WS 392	Women in History	3-4	POLI SCI 266	The Development of Modern Western Political Thought	3-4
HISTORY 419	History of Soviet Russia	3-4	POLI SCI 313	Bargaining in the Global Economy	3-4
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	POLI SCI 340	The European Union: Politics and Political Economy	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	POLI SCI 350	International Political Economy	3-4
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Poli Econ & Liberal)	3	POLI SCI 351	Politics of the World Economy	3-4
INTL BUS 200	International Business	3	POLI SCI 356	Principles of International Law	3-4
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	POLI SCI 377	Nuclear Weapons and World Politics	3-4
INTL BUS 365	Contemporary Topics	1-3	POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4	POLI SCI 401	Selected Topics in Political Science (Political Economy)	3-4
INTL ST/ED POL 335	Globalization and Education	3	POLI SCI 421	The Challenge of Democratization	3-4
INTL ST/A A E 373	Globalization, Poverty and Development	3	POLI SCI 432	Comparative Legal Institutions	3-4
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	POLI SCI 438	Comparative Political Culture	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4	POLI SCI 460	Topics in Political Philosophy (Economic Inequality)	3-4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	POLI SCI 534	Socialism and Transitions to the Market	3-4
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	POLI SCI 561	Radical Political Theory	3-4
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	POLI SCI 637	Comparative Political Economy	3-4
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	POLI SCI 652	The Politics of Development	3-4
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4	POLI SCI 654	Politics of Revolution	3-4
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Pol Sci: CmpartvPo)	1-4
JOURN 618	Mass Communication and Political Behavior	4	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Comparative Politics)	1-4
JOURN 620	International Communication	4	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
JOURN 621	Mass Communication in Developing Nations	4	RELIG ST/ POLI SCI 618	Political Islam	3-4
L I S 661	Information Ethics and Policy	3	SCAND ST 476	Scandinavian Life and Civilization II	4
LCA/HISTORY 450	Making of Modern South Asia	3-4	SOC 225	Contemporary Chinese Society	3
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4	SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3	SOC 620	Comparative Racial Inequality	3
			SOC/C&E SOC 623	Gender, Society, and Politics	3
			SOC 626	Social Movements	3
			SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
			SOC 632	Sociology of Organizations	3-4
			SOC 633	Social Stratification	3
			SOC/C&E SOC 649	Sociology of Work and Employment	3

SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/ECON 663	Population and Society	3
SPANISH/ INTL BUS 329	Spanish for Business	3
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3

### Electives

Students typically take three or four elective courses in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Students must take enough elective credits to attain the required 35 total credits in the major. Choose from:

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN 303	African Literature and Visual Culture	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	3
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN/ FRENCH 440	African/Francophone Film	3

AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 453	Modern African Literature in English	3-4
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 609	Advanced Topics in Global Black Music Studies	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER 265	African-American Autobiography	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER 271	Selected Topics in African American Culture	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ HIST SCI/ MED HIST 275	Science, Medicine, and Race: A History	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2
AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3



AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3	AFROAMER 675	Selected Topics in Afro-American Culture	3
AFROAMER/ GEN&WS 333	Black Feminisms	3	AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	3
AFROAMER 337	The Harlem Renaissance	3	AFROAMER 678	Modern/Contemporary Art of Nigeria and the African Diaspora	3
AFROAMER 338	The Black Arts Movement	3	AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	ANTHRO 327	Peoples of the Andes Today	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	ANTHRO 330	Topics in Ethnology (SE Asia)	3-4
AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3	ANTHRO 330	Topics in Ethnology (Anthropology of Foodways)	3-4
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4	ANTHRO 330	Topics in Ethnology (Brazil)	3-4
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3	ANTHRO 350	Political Anthropology	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
AFROAMER 469	Interdisciplinary Studies in the Arts	1-4	ANTHRO 358	Anthropology of China	3
AFROAMER 501	19th Century Afro-American Literature	3	ANTHRO 365	Medical Anthropology	3
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3	ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
AFROAMER/ POLI SCI 519	African American Political Theory	3-4	ANTHRO/LCA 462	Anthropology of South Asia	3
AFROAMER/HDFS/ SOC WORK 521	African American Families	3	ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
AFROAMER 525	Major Authors	3	ANTHRO 677	Public Monuments and Symbols	3
AFROAMER/ ED POL 567	History of African American Education	3	ART HIST 350	19th Century Painting in Europe	3-4
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	ART HIST 351	20th Century Art in Europe	3-4
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3	ART HIST 357	European Architecture: The Nineteenth Century	3-4
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	ART HIST 358	European Architecture: The Modern Movements	3-4
AFROAMER 631	Colloquium in Afro-American History	3	ART HIST 371	Chinese Painting	3-4
AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History	3	ART HIST 372	Arts of Japan	3-4
AFROAMER 669	Interdisciplinary Studies in the Arts	1-4	ART HIST 411	Topics in Asian Art (Modern & Contempor)	3-4
AFROAMER 671	Selected Topics in Afro-American History	3	ART HIST 454	Art in Germany, 1900-1945	3-4
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	ART HIST 479	Art and History in Africa	3-4
AFROAMER 673	Selected Topics in Afro-American Society	3	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER/ ART 674	Selected Topics on Afro-American Artists	3	ATM OCN 100	Weather and Climate	3
			ATM OCN 101	Weather and Climate	4
			ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
			ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
			ATM OCN/ ENVIR ST 520	Bioclimatology	3
			ATM OCN/ENVIR ST/ GEOG 528	Past Climates and Climatic Change	3

ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3	E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3
BOTANY 240	Plants and Humans	3	ECON 330	Money and Banking	4
C&E SOC/SOC 245	Technology and Society	3	ECON 364	Survey of International Economics	3-4
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3	ECON 464	International Trade and Finance	3-4
C&E SOC/SOC/ URB R PL 617	Community Development	3	ECON/HISTORY 466	The American Economy Since 1865	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4	ECON 467	International Industrial Organizations	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3	ECON 475	Economics of Growth	3-4
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	ECON/A A E 567	Public Finance in Less Developed Countries	3
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	3	ED POL 150	Education and Public Policy (Human Rights & Education)	3
COM ARTS 346	Critical Internet Studies	3	ED POL/INTL ST 335	Globalization and Education	3
COM ARTS 350	Introduction to Film	3	ED POL 340	Comparative Education	3
COM ARTS 352	Film History to 1960	3	ED POL/ ANTHRO 570	Anthropology and Education	3
COM ARTS 371	Communication and Conflict Resolution	3	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
COM ARTS 372	Rhetoric of Campaigns and Revolutions	3	ED POL 675	Introduction to Comparative and International Education	3
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	3	ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3
COM ARTS 455	French Film	3	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3
COM ARTS 456	Russian and Soviet Film	3	ENGL 352	Modernist Poetry	3
COM ARTS 458	Global Media Cultures	3	ENGL 353	British Literature since 1900	3
COM ARTS/ ITALIAN 460	Italian Film	3	ENGL 453	Topic in British Literature and Culture since 1900	3
COM ARTS 470	Contemporary Political Discourse	3	ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
COM ARTS 557	Contemporary Media Industries	3	ENGL/THEATRE 575	British Drama, 1914 to Present	3
COM ARTS 577	Dynamics of Online Relationships	3	ENVIR ST/ILS 126	Principles of Environmental Science	4
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
COMP LIT 375	Literature and Related Disciplines	3-4	ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
COMP LIT 379	Literature and Ethnic Experience	3-4	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
DS 639/ LAND ARC DS 639	Culture and Built Environment	3	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Intro to Korean Culture)	1-3	ENVIR ST/BSE 367	Renewable Energy Systems	3
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Korean Culture)	1-3	ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (Survey of Tibetan Buddhism)	1-3	ENVIR ST/N E 373	Nuclear Energy and the Environment	3
E A STDS 301	Social Studies Topics in East Asian Studies (Two Koreas)	1-3	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	1-4
E A STDS 301	Social Studies Topics in East Asian Studies (Korean)	1-3	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	1-4
E ASIAN 253	Introduction to Japanese Culture and Civilization	3			
E ASIAN 352	Survey of Chinese Literature	3			
E ASIAN 354	Survey of Japanese Literature	3			

ENVR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4	GEN&WS/ENGL 250	Women in Literature	3
ENVR ST/ POP HLTH 471	Introduction to Environmental Health	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	1-3
ENVR ST/ POP HLTH 502	Air Pollution and Human Health	3	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	1-3
ENVR ST/ F&W ECOL 515	Natural Resources Policy	3	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	1-3
ENVR ST 539	Air Resources Science and Policy	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
ENVR ST/ SOIL SCI 575	Assessment of Environmental Impact	3	GEN&WS 420	Women in Cross-Societal Perspective	3
ENVR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3	GEN&WS 424	Women's International Human Rights	3
ENVR ST/A A E/ ECON/URB R PL 671	Energy Economics	3	GEN&WS 426	Women and Grassroots Politics Across the Globe	3
F&W ECOL 318	Principles of Wildlife Ecology	3	GEN&WS/HISTORY/ LCA 472	Women in Turkish Society	3
F&W ECOL 410	Principles of Silviculture	3	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
F&W ECOL 450	Communities and Forests	3	GEN&WS/ URB R PL 644	International Development and Gender	3
F&W ECOL/ ENVR ST/ HISTORY 452	World Forest History	3	GEOG 101	Introduction to Human Geography	4
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	GEOG/ENVR ST 120	Introduction to the Earth System	3
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3	GEOG/ENVR ST 127	Physical Systems of the Environment	5
FOLKLORE/ ANTHRO 344	Anthropological Approaches to Folklore	3	GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
FOLKLORE 510	Folklore Theory	3	GEOG 301	Geography of Social Organization	3
FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3	GEOG/URB R PL 305	Introduction to the City	3-4
FOLKLORE 560	Folklore in a Digital Age	3	GEOG 318	Introduction to Geopolitics	3
FRENCH 211	French Interdisciplinary Studies	3	GEOG 319	Environmental Evaluation and Adaptation	3
FRENCH 240	Immigration and Expression	3	GEOG 321	Climatology	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GEOG/ATM OCN/ ENVR ST 331	Climatic Environments of the Past	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GEOG/BOTANY 338	Environmental Biogeography	3
FRENCH 322	Introduction to Literature of Modernity	3	GEOG/ENVR ST 339	Environmental Conservation	4
FRENCH 325	Visual Culture in French/ Francophone Studies	3	GEOG 340	World Regions in Global Context	3
FRENCH 348	Modernity Studies	3	GEOG 349	Europe	3
FRENCH 433	Readings in Twentieth and Twenty-First Century Literature	3	GEOG 355	Africa, South of the Sahara	3
FRENCH 449	Francophone Modernity Studies	3	GEOG 358	Human Geography of Southeast Asia	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GEOG/C&E SOC/ ENVR ST 434	People, Wildlife and Landscapes	3
FRENCH 465	French/Francophone Film	3	GEOG/ENVR ST/ HISTORY 460	American Environmental History	4
FRENCH 467	Aspects of Contemporary French Literature	3	GEOG 475	Topics in Geography	1-4
FRENCH 472	French/Francophone Literature and Women	3	GEOG/URB R PL 506	Historical Geography of European Urbanization	3
FRENCH 595	Theory and Practice of French/ Francophone Drama	4	GEOG 510	Economic Geography	4
			GEOG/ENVR ST 534	Environmental Governance: Markets, States and Nature	3
			GEOG/ENVR ST 537	Culture and Environment	4

GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3	HISTORY 201	The Historian's Craft (various)	3-4
GEOSCI/ ATM OCN 105	Survey of Oceanography	3-4	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	3-4
GEOSCI/ ENVIR ST 106	Environmental Geology	3	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	3-4
GEOSCI/ ENVIR ST 410	Minerals as a Public Problem	3	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	3-4
GEOSCI/ ENVIR ST 411	Energy Resources	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	3
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	3	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)	3
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	3	HISTORY 241	Latin America from 1780 to 1940	4
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	3	HISTORY 242	Modern Latin America, 1898 to the Present	4
GERMAN 278	Topics in German Culture (Culture in 20th Century)	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4	HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	3	HISTORY 319	The Vietnam Wars	3-4
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	3	HISTORY 335	Korean History, 1945 to present	3-4
GERMAN 362	Topics in German Literature (Musik)	3-4	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
GERMAN 362	Topics in German Literature (Migration in deutscher)	3-4	HISTORY 357	The Second World War	3-4
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	3-4	HISTORY/ GEN&WS 392	Women in History	3-4
GERMAN 372	Topics in German Culture (Oesterreich)	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
GERMAN 372	Topics in German Culture (Deutscher Film)	3-4	HISTORY 418	History of Russia	3-4
GERMAN 372	Topics in German Culture (Green Germany)	3-4	HISTORY 419	History of Soviet Russia	3-4
GERMAN 372	Topics in German Culture (China-German Point of View)	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
GERMAN/ COM ARTS 655	German Film	3	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HIST SCI 337	History of Technology	3	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HIST SCI 339	Technology and Its Critics Since World War II	3	HISTORY 475	European Social History, 1914-Present	3-4
HIST SCI/ ENVIR ST 353	History of Ecology	3	HISTORY 503	Irish and Scottish Migrations	3
HIST SCI/HISTORY/ MED HIST 508	Health, Disease and Healing II	3-4	HISTORY 514	European Cultural History Since 1870	3-4
HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3	HISTORY 533	Multi-Racial Societies in Latin America	3-4
			HISTORY 607	The American Impact Abroad: The Historical Dimension	3
			HORT 370	World Vegetable Crops	3

ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	3	INTL ST 620	Topics in International Studies	1-4
INTL BUS 200	International Business	3	INTL ST 622	Washington DC Sem in International Affairs Seminar	4
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	ITALIAN 230	Modern Italian Culture	3
INTL BUS/A A E/ ECON 462	Latin American Economic Development	3	ITALIAN 322	Introduction to Italian Literature	3
INTL BUS 365	Contemporary Topics (International Perspectives)	1-3	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	3
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	3
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	3-4	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	3
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3	ITALIAN/ COM ARTS 460	Italian Film	3
INTL ST/ED POL 335	Globalization and Education	3	ITALIAN 637	La Poesia del Novecento	3
INTL ST/A A E 373	Globalization, Poverty and Development	3	JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
INTL ST 401	Topics in Global Security	3-4	JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4	JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4
INTL ST 403	Topics in Culture in the Age of Globalization	3-4	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3
INTL ST 404	Topics in Global Environment	3-4	JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3	JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
INTL ST/ POLI SCI 431	Contentious Politics	3-4	JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4	JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	3	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4	JOURN 618	Mass Communication and Political Behavior	4
INTL ST 501	Study Abroad Topics in Global Security	1-6	JOURN 620	International Communication	4
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6	JOURN 621	Mass Communication in Developing Nations	4
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6	L I S 201	The Information Society	4
INTL ST 504	Study Abroad Topics in Global Environment	1-6	L I S 661	Information Ethics and Policy	3
INTL ST 520	Study Abroad Topics in International Studies	1-6	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	1-4
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3	LCA 300	Topics in Languages and Cultures of Asia (Sexuality in South Asia)	3
INTL ST 601	Topics in Global Security	1-4	LCA 300	Topics in Languages and Cultures of Asia (Indian Traditions Modern Age)	3
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	LCA 311	Modern Indian Literatures	3
INTL ST 603	Topics in Culture in the Age of Globalization	1-4	LCA/RELIG ST 357	Literatures of Muslim Societies	3
INTL ST 604	Topics in Global Environment	1-4	LCA 361	Survey of Indonesian Cultures	3
			LCA/RELIG ST 402	Thought of Gandhi	3
			LCA 403	Southeast Asian Literature	3
			LCA/ART HIST 428	Visual Cultures of South Asia	3

LCA 441	Language and Society in Southeast Asia	3	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	3
LCA/HISTORY 450	Making of Modern South Asia	3-4	LITTRANS 301	Modern Indonesian Literature in Translation	3
LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4	LITTRANS 304	Southeast Asian Literature in Translation	3
LCA 579	Fiction and Ethnography in Turkey	3	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	3
LCA/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
LCA 630	Proseminar: Studies in Cultures of Asia (Everyday: Lives, Spaces)	3	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
LCA LANG 617	Thai Poetry	3	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LCA LANG 618	Thai Prose Literature: The Short Story	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LCA LANG 654	Advanced Readings in Hindi Literature	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LCA LANG 677	Advanced Readings in Tibetan	3	LITTRANS 368	Modern Japanese Fiction	3
LEGAL ST 409	Human Rights in Law and Society	3	LITTRANS 373	Topics in Japanese Literature (Evangelion)	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4	LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4	MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
LITTRANS 211	Modern Indian Literatures in Translation	3	MED HIST 526	Medical Technology and the Body	3
LITTRANS 214	Literatures of Central Asia in Translation	3	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	3
LITTRANS 220	Chekhov in Translation	3-4	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
LITTRANS 222	Dostoevsky in Translation	3-4	MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
LITTRANS 224	Tolstoy in Translation	3-4	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	MUSIC 416	Survey of Music in the Twentieth Century	3
LITTRANS 240	Soviet Literature in Translation	3-4	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	3	PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	3	PHILOS 555	Political Philosophy	3
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3	PHILOS 557	Issues in Social Philosophy	3
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3			
LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3			
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4			

POLI SCI 266	The Development of Modern Western Political Thought	3-4	POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4
POLI SCI 313	Bargaining in the Global Economy	3-4	POLI SCI/LCA 663	South Asia and the Global System: Economy, Security & Culture	3-4
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4	POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4
POLI SCI 330	Political Economy of Development	3	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	1-4
POLI SCI 333	International Politics of the Middle East	3-4	PORTUG/ GEN&WS 450	Brazilian Women Writers	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4	PORTUG 467	Survey of Portuguese Literature since 1825	3
POLI SCI 343	Theories of International Security	3-4	PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	3
POLI SCI 346	China in World Politics	3-4	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
POLI SCI 347	Terrorism	3	PSYCH 528	Introduction to Cultural Psychology	3
POLI SCI 348	Analysis of International Relations	3-4	RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4
POLI SCI 350	International Political Economy	3-4	RELIG ST/ HISTORY 379	Islam in Iran	3
POLI SCI 351	Politics of the World Economy	3-4	RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	3-4
POLI SCI 353	The Third World in the International System	3-4	RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	3-4
POLI SCI 354	International Institutions and World Order	3-4	RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
POLI SCI 356	Principles of International Law	3-4	RELIG ST/ POLI SCI 618	Political Islam	3-4
POLI SCI 359	American Foreign Policy	3-4	SCAND ST 251	Readings in Norwegian Literature	3-4
POLI SCI 363	Literature and Politics	3-4	SCAND ST 261	Readings in Swedish Literature	3-4
POLI SCI 377	Nuclear Weapons and World Politics	3-4	SCAND ST 271	Readings in Danish Literature	3-4
POLI SCI 401	Selected Topics in Political Science (Global Governance)	3-4	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
POLI SCI 421	The Challenge of Democratization	3-4	SCAND ST 420	The Woman in Scandinavian Literature	4
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3	SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4
POLI SCI/ INTL ST 431	Contentious Politics	3-4	SCAND ST 427	Contemporary Scandinavian Literature	4
POLI SCI 432	Comparative Legal Institutions	3-4	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
POLI SCI 438	Comparative Political Culture	3-4	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4	SCAND ST 437	Modern Scandinavian Drama	4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
POLI SCI 455	African International Relations	3-4	SCAND ST 466	Greenland - Past, Present, and Future	3
POLI SCI 460	Topics in Political Philosophy (Economic Inequality)	3-4	SCAND ST 476	Scandinavian Life and Civilization II	4
POLI SCI 529	Arab-Israeli Conflict	3-4	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
POLI SCI 534	Socialism and Transitions to the Market	3-4	SLAVIC 242	Literatures and Cultures of Eastern Europe	3
POLI SCI 538	Politics and Policies in the European Union	3-4			
POLI SCI 561	Radical Political Theory	3-4			
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	3			
POLI SCI/ RELIG ST 618	Political Islam	3-4			
POLI SCI 637	Comparative Political Economy	3-4			
POLI SCI 640	Politics of Japan	3-4			
POLI SCI 652	The Politics of Development	3-4			
POLI SCI 654	Politics of Revolution	3-4			

SLAVIC 302	Zarys historii literatury polskiej	3	SPANISH/ INTL BUS 329	Spanish for Business	3
SLAVIC 321	Fourth Year Russian I	4	SPANISH 361	Spanish Civilization	3
SLAVIC 322	Fourth Year Russian II	4	SPANISH 363	Spanish American Civilization	3
SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	SPANISH 453	Literature of the Twentieth Century	3
SLAVIC 405	Women in Russian Literature	3-4	SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SLAVIC 420	Chekhov	3-4	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)	3
SLAVIC 434	Contemporary Russian Culture	3	SPANISH 461	The Spanish American Short Story	3
SLAVIC 439	Russia Today in Literature and Film	4	SPANISH 462	Spanish American Theater and Drama	3
SLAVIC 440	Soviet Literature	3-4	SPANISH 463	The Spanish American Novel	3
SLAVIC 449	Istorija srpske i hrvatske literature	3	SPANISH 464	Spanish American Poetry and Essay	3
SLAVIC 454	Moderna srpska i hrvatska literatura	3	SPANISH 465	Literature and Film in Spanish America	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3	SPANISH 468	Topics in Hispanic Culture (Documentary Film)	3
SOC 170	Population Problems	3-4	SPANISH 468	Topics in Hispanic Culture (Minds and Machines)	3
SOC 225	Contemporary Chinese Society	3	SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3	THEATRE 327	History of Costume for the Stage	3
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3	THEATRE 351	Fundamentals of Asian Stage Discipline	3
SOC 496	Topics in Sociology (Intercultural Dialogues)	1-3	THEATRE 420	Theatre and Society	3
SOC 496	Topics in Sociology (The Soviet Jewish Experience)	1-3	THEATRE 424	Contemporary World Theatre and Dramatic Literature	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3	THEATRE 526	The Theatres of China and Japan	3
SOC 620	Comparative Racial Inequality	3	THEATRE/ SLAVIC 532	History of Russian Theatre	3
SOC/C&E SOC 623	Gender, Society, and Politics	3	THEATRE/ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	3
SOC 626	Social Movements	3	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3	ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology	3
SOC 632	Sociology of Organizations	3-4	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
SOC 633	Social Stratification	3	ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
SOC/LCA/ RELIG ST 634	Social Structure of India	3	ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
SOC 640	Sociology of the Family	3	ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
SOC 646	Race and Ethnic Relations	3	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
SOC/ED POL 648	Sociology of Education	3	ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3
SOC/C&E SOC 649	Sociology of Work and Employment	3			
SOC/C&E SOC 652	Sociology of Economic Institutions	3			
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3			
SOC/ECON 663	Population and Society	3			
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3			
SOIL SCI/ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	3			
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3			
SPANISH 324	Survey of Modern Spanish Literature	3			
SPANISH 326	Survey of Spanish American Literature	3			

<sup>4</sup> A maximum four courses from a single SUBJECT may be applied to the 35 credits in the major. This excludes INTL ST courses and



courses cross-listed in INTL ST. For example: A student with five POLI SCI courses that could apply to the major will see only four of those courses applying in the international studies major. (However, if one of those POLI SCI courses is also cross-listed in INTL ST, that course will not count against the limit, and thus, all five POLI SCI courses will apply in the major). The degree audit (DARS) enforces this limitation.

Though some courses are identified as acceptable for two or more requirements, a course may meet only one requirement. For example, a course that could count in either Option Core or Option Issues will meet only one of those requirements, based on which requirement needs that course to become satisfied. The degree audit (DARS) determines the best scenario.

## DISTINCTION IN THE MAJOR

Students not enrolled in the Honors Program may apply for Distinction in the Major. Criteria include:

1. A 3.500 grade point average in the major
2. Completion of a Senior Thesis, Senior Seminar, or "substantial extra work" in an advanced course in the major
3. A letter of recommendation from a member of the UW–Madison faculty to the international studies advising staff (submitted three weeks prior to the date of graduation).

## HONORS IN THE MAJOR

Students may declare Honors in the International Studies Major in consultation with the International Studies advisor(s). They must declare prior to enrollment in their Senior Honors Thesis (typically second semester of junior year).

## HONORS IN THE INTERNATIONAL STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in International Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in major courses
- Complete 16 upper-level<sup>1</sup> major credits, taken for Honors, with individual grades of B or better in each course<sup>2</sup>
- Complete a two-semester Senior Honors Thesis, for a total of 6 credits, or two Senior Seminars, with grades of B or better; choose from:

Code	Title	Credits
<b>Senior Honors Thesis (2 courses):</b>		
AFRICAN 681 & AFRICAN 682	Senior Honors Thesis and Senior Honors Thesis	
E A STDS 681 & E A STDS 682	Senior Honors Thesis and Senior Honors Thesis	
E ASIAN 681 & E ASIAN 682	Senior Honors Thesis and Senior Honors Thesis	
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis	
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	

GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester
HISTORY 681 & HISTORY 682	Senior Honors Thesis and Senior Honors Thesis
INTL ST 681 & INTL ST 682	Senior Honors Thesis and Senior Honors Thesis
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis
PORTUG 681 & PORTUG 682	Senior Honors Thesis and Senior Honors Thesis
SLAVIC 681 & SLAVIC 682	Senior Honors Thesis and Senior Honors Thesis
SPANISH 681 & SPANISH 682	Senior Honors Thesis and Senior Honors Thesis

Senior Seminar (2 courses):

INTL ST 601	Topics in Global Security
INTL ST 602	Topics in Politics and Policy in the Global Economy
INTL ST 603	Topics in Culture in the Age of Globalization
INTL ST 604	Topics in Global Environment

<sup>1</sup> All intermediate- and advanced-level courses counting in the major are considered upper level.

<sup>2</sup> A maximum of 2 courses and 8 credits from UW–Madison Study Abroad may count.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. **Interdisciplinarity:** analyzing contemporary political, economic, security and cultural realities globally from multi-disciplinary perspectives, ideally including humanities, social sciences, humanitarian, and sometimes natural science approaches.

- Depth of knowledge:** mastering at the undergraduate generalist level major issues related to key themes in International Studies (e.g. culture, global security and political economy) by taking 15 credits in one particular theme area.
- Regional (studies) grounding:** understanding the social, political, economic and cultural forces and conditions that have given rise to the unity and diversity of a specific region of the world today.
- Language knowledge:** mastering at the undergraduate generalist level a particular facet of life in one or more region of the world by studying a foreign language to at least the advanced (5th semester) level.
- Analytical skills:** demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## ADVISING AND CAREERS

### INTERNATIONAL STUDIES MAJOR ADVISING STAFF

International studies majors have a wide variety of academic advising and career resources and support. Academic advising is essential to a successful undergraduate experience. For this reason, the international studies major has a professional advisor, a peer advisor, and a career advisor. We recommend that you meet with your advisor at least once per semester to track progress toward your degree, explore study abroad options, and begin the career exploration process. The IS major offers walk-in advising, advising workshops, and scheduled appointments. Students exploring the IS major should plan to attend an Intro to the IS Major workshop (<http://www.ismajor.wisc.edu/about/news-and-events/upcoming-workshop-dates>). To learn more about academic advising information, please visit the IS Major website (<http://www.ismajor.wisc.edu/about/current-students/academic-advising>).

Students should also begin the career advising process early. The international studies major offers a 1-credit career class designed for sophomores or juniors. Students are strongly encouraged to meet with both the IS career advisor and L&S Career Services and apply for internship opportunities—both domestically and via International Internship Programs or the Washington DC Internship Program. The IS major also maintains a list of career events (<http://www.ismajor.wisc.edu/about/news-and-events/career-and-internship-events>) across campus that will benefit undergraduate students, hosts career workshops, and has a transition checklist to help students prepare for post-undergraduate life. For more information, please visit our website (<http://www.ismajor.wisc.edu/about/current-students/careers>).

**Kirsten Brown, Ph.D.—Academic Advisor**

**Csanád Siklós, Ph.D.—Academic Advisor**

**Joel Clark—Career Advisor**

### LETTERS & SCIENCE CAREER RESOURCES

International Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for

the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

The international studies major is directed by Dr. Jo Ellen Fair, Professor of African Cultural Studies.

The advisors for the international studies major are Dr. Kirsten R. Brown and Dr. Csanád Siklós.

The career advisor is Dr. Joel Clark.

## WISCONSIN EXPERIENCE

### STUDY ABROAD

International studies majors are strongly encouraged to study abroad. The International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/study-abroad>) provides information about how to plan your experience abroad.

### INTERNSHIP ABROAD

International studies majors are strongly encouraged to study abroad. Please review information on the International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/internships>) and the International Internship Program website (<http://internships.international.wisc.edu>) about opportunities.

### UNDERGRADUATE RESEARCH

The international studies major encourages students to become engaged in undergraduate research. There are numerous programs (<http://www.provost.wisc.edu/undergradresearch.htm>) that provide research opportunities for undergraduates at UW–Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<http://www.provost.wisc.edu/hilldale.htm>)
- McNair Scholars (<http://grad.wisc.edu/mcnair>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu>)
- The Wisconsin Idea Undergraduate Fellowship Program (<http://www.morgridge.wisc.edu/programs/wif>)

## LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES, B.A.

The Latin American, Caribbean, and Iberian Studies Program is one of the major U.S. centers for research about Latin America. This program is for those who seek a multidisciplinary education on Latin America, the Caribbean, Spain, and Portugal. It offers a wide range of courses in fields such as anthropology, business, economics, geography, history, journalism, music, political science, sociology, Spanish and Portuguese, and indigenous languages such as Yucatec Maya.

The aims of the Latin American, Caribbean, and Iberian studies major are to provide:

1. a broad exposure to Latin American, Caribbean, and Iberian studies by requiring students to take area and language content courses;
2. basic working knowledge in Spanish and/or Portuguese;
3. flexibility which allows students to take courses of interest, study abroad, and develop innovative academic projects; and
4. career-related advice and opportunities including volunteer work and internships with international organizations.

Students should contact the undergraduate advisor to determine which courses may satisfy major requirements. A minimum of 40 credits is required for the LACIS major. Upon declaration of the LACIS major, an assessment file is opened for each student which will include:

1. the development and submission of an "area of concentration,"
2. writing samples,
3. results of a language proficiency exam, and
4. an exit survey.

### HOW TO GET IN

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to declare the major and to determine which courses may satisfy major requirements.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
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UW-Madison Experience	30 credits in residence, overall
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	30 credits in residence after the 90th credit
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Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<i>Introductory Requirement</i>		
Select one of the following: <sup>1</sup>		3-4
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY 242	Modern Latin America, 1898 to the Present	
<i>Language Requirement</i>		12-16
Students must either complete or test out of the fourth semester of Spanish or Portuguese.		
Students must also take an additional four courses in Spanish and/or Portuguese language, literature, and civilization above the 220 level. <sup>2</sup>		
ANTHRO 330	Topics in Ethnology (Section 004)	3-4
LACIS/ANTHRO 361	Elementary Quechua	4
LACIS/ANTHRO 362	Elementary Quechua	4
LACIS/ANTHRO 363	Intermediate Quechua	4
LACIS/ANTHRO 364	Advanced Quechua	4
LACIS/ANTHRO 376	First Semester Yucatec Maya	4
LACIS/ANTHRO 377	Second Semester Yucatec Maya	4
PORTUG 207	Portuguese for Business	4
PORTUG 221	Introduction to Luso-Brazilian Literatures	4
PORTUG 225	Third Year Conversation and Composition	3
PORTUG 226	Third Year Conversation and Composition	3
PORTUG 230	Brazil and Brazilians in the United States	3
PORTUG 299	Directed Study	1-3
PORTUG 301	Intensive Portuguese	4
PORTUG 302	Intensive Portuguese	4
PORTUG 311	Fourth Year Composition and Conversation	3
PORTUG 312	Fourth Year Composition and Conversation	3
PORTUG 330	History of the Portuguese Language	3
PORTUG 361	Portuguese Civilization	3
PORTUG 362	Brazilian Civilization	3

PORTUG 364	Historical and Cultural Traditions of Brazil	2
PORTUG 411	Survey of Portuguese Literature before 1825	3
PORTUG 412	Survey of Brazilian Literature before 1890	3
PORTUG/ FRENCH/ITALIAN/ SPANISH 429	Introduction to the Romance Languages	3
PORTUG/ GEN&WS 450	Brazilian Women Writers	3
PORTUG/ AFRICAN 451	Lusophone African Literature	3
PORTUG/ GEN&WS 460	Carmen Miranda	3
PORTUG 467	Survey of Portuguese Literature since 1825	3
PORTUG 468	Survey of Brazilian Literature since 1890	3
PORTUG 573	Topics in Portuguese: Study Abroad	1-6
PORTUG 640	Topics in Luso-Brazilian Literature	3
PORTUG 642	Topics in Luso-Brazilian Culture	3
PORTUG 681	Senior Honors Thesis	3
PORTUG 682	Senior Honors Thesis	3
PORTUG 699	Directed Study	1-6
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3
SPANISH/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4
SPANISH 299	Directed Study	1-3
SPANISH 311	Advanced Language Practice	3
SPANISH 319	Topics in Spanish Language Practice	1-3
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 325	Advanced Conversation	3
SPANISH 326	Survey of Spanish American Literature	3
SPANISH 327	Introduction to Spanish Linguistics	3
SPANISH/ INTL BUS 329	Spanish for Business	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 359	Spanish Business Area Studies	3
SPANISH 361	Spanish Civilization	3

SPANISH 363	Spanish American Civilization	3	SPANISH 544	Contemporary Issues in Applied Spanish Linguistics	3
SPANISH/ MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3	SPANISH 545	College Teaching of Spanish	2
SPANISH 417	Literatura del Siglo de Oro	3-4	SPANISH 548	Structure of the Spanish Language: Morphology and Syntax	3
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3	SPANISH 564	Theory and Practice of Hispanic Theatre	4
SPANISH 435	Cervantes	3	SPANISH 627	Historia de Teoria Literaria: de Platon Al Siglo XVIII	3
SPANISH 446	Topics in Spanish Linguistics	3	SPANISH 628	Historia de Teoria Literaria: Siglos XIX-XX	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3	SPANISH 630	Topics in Hispanic Linguistics	3
SPANISH 453	Literature of the Twentieth Century	3	SPANISH 681	Senior Honors Thesis	3
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3	SPANISH 682	Senior Honors Thesis	3
SPANISH 460	Literatura Hispanoamericana	3	SPANISH 691	First Semester Senior Thesis	3
SPANISH 461	The Spanish American Short Story	3	SPANISH 692	Second Semester Senior Thesis	3
SPANISH 462	Spanish American Theater and Drama	3	SPANISH 699	Directed Study	1-6
SPANISH 463	The Spanish American Novel	3	<i>Area of Concentration</i>		15-20
SPANISH 464	Spanish American Poetry and Essay	3	Students must take at least five courses in an area of concentration that the student self-selects.		
SPANISH 465	Literature and Film in Spanish America	3	The concentration may be disciplinary (history, anthropology etc.) or topical (poverty, gender, social justice etc). The courses in the area of concentration CAN NOT be Spanish or Portuguese language or literature courses.		
SPANISH 466	Topics in Spanish American Literature	1	A A E/ENVIR ST 244	The Environment and the Global Economy	3
SPANISH 468	Topics in Hispanic Culture	3	A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
SPANISH/ CHICLA 469	Topics in Hispanic Cultures in the U.S.	3	A A E/INTL ST 373	Globalization, Poverty and Development	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/ Linguistics	3	A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
SPANISH 471	Topics in Hispanic Literature	3	A A E 375	Special Topics (LACIS-related topic only)	1-4
SPANISH 472	Hispanic Screen Studies	3	A A E/ECON/ INTL BUS 462	Latin American Economic Development	3
SPANISH 473	Study Abroad in Spanish Language Practice	1-4	AFRICAN/ PORTUG 451	Lusophone African Literature	3
SPANISH 474	Study Abroad in Spanish Linguistics	1-4	AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
SPANISH 475	Study Abroad in Hispanic Literatures	1-4	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
SPANISH 476	Study Abroad in Hispanic Cultures	1-4	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
SPANISH 501	Survey of Spanish American Literature from the Discovery to Modernismo	3	AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History (LACIS related topic)	3
SPANISH 502	Survey of Spanish American Literature from Modernismo to the Present	3	AGRONOMY 377	Cropping Systems of the Tropics	3
SPANISH/ MEDIEVAL 503	Survey of Medieval Literature	3	AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
SPANISH/ MEDIEVAL 504	Survey of Medieval Literature	3	ANTHRO 102	Archaeology and the Prehistoric World	3
SPANISH 505	Advanced Survey of Spanish Literature	3			
SPANISH 506	Advanced Survey of Spanish Literature	3			
SPANISH/ MEDIEVAL 541	Old Spanish	3			
SPANISH 543	Spanish Phonology	3			

ANTHRO 104	Cultural Anthropology and Human Diversity	3	ECON 448	Human Resources and Economic Growth	3-4
ANTHRO 212	Principles of Archaeology	3	ECON/A A E/ INTL BUS 462	Latin American Economic Development	3
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3	ECON 464	International Trade and Finance	3-4
ANTHRO/ AFROAMER/ C&E SOC/ GEOG/ HISTORY/ LACIS/ POLI SCI/ SOC/ SPANISH 260	Latin America: An Introduction	3-4	ECON 467	International Industrial Organizations	3-4
ANTHRO 310	Topics in Archaeology (LACIS related content)	3	ECON/A A E 474	Economic Problems of Developing Areas	3
ANTHRO 322	The Origins of Civilization	3	ECON 475	Economics of Growth	3-4
ANTHRO 327	Peoples of the Andes Today	3	ECON/A A E 567	Public Finance in Less Developed Countries	3
ANTHRO/LACIS 361	Elementary Quechua	4	ENVIR ST 200	Special Topics in Environmental Studies (LACIS related content)	1-4
ANTHRO/LACIS 362	Elementary Quechua	4	ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
ANTHRO/LACIS 363	Intermediate Quechua	4	ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3
ANTHRO/LACIS 364	Advanced Quechua	4	ENVIR ST/ATM OCN/ GEOG 528	Past Climates and Climatic Change	3
ANTHRO 490	Undergraduate Seminar (LACIS related topic)	3	F&W ECOL 100	Introduction to Forestry	2
ART HIST 390	Pre-Columbian Art	3-4	F&W ECOL 375	Special Topics (LACIS related content)	1-4
ART HIST 500	Proseminar. Special Topics in Art History (LACIS related content)	3	F&W ECOL 379	Principles of Wildlife Management	3
BOTANY 400	Plant Systematics	4	F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4	GEN&WS 424	Women's International Human Rights	3
CHICLA 301	Chicana/o and Latina/o History	3	GEN&WS/ PORTUG 450	Brazilian Women Writers	3
CHICLA/ HISTORY 461	The American West to 1850	3-4	GEN&WS/ PORTUG 460	Carmen Miranda	3
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4	GEOG 101	Introduction to Human Geography	4
CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies	1-4	GEOG 104	Introduction to Human Geography	3
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	3	GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/ LACIS/ POLI SCI/ SOC/ SPANISH 260	Latin America: An Introduction	3-4
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3	GEOG/ENVIR ST 339	Environmental Conservation	4
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3	GEOG 340	World Regions in Global Context	3
C&E SOC/ SOC 630	Sociology of Developing Societies/ Third World	3	GEOG 348	Latin America	4
COMP LIT 202	Introduction to Modern and Contemporary Literature	3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
COMP LIT 205	Intro to Comparative Study of Race & Ethnicity, In & Beyond the U.S.	3	HISTORY 240	Colonial Latin America from Conquest to Insurgency	4
COUN PSY 620	Special Topics in Counseling and Guidance (LACIS related content)	1-6	HISTORY 278	Africans in the Americas, 1492-1808	3-4
CURRIC 243	Practicum in World Languages (K-12)	3	HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
CURRIC 375	Proseminar (Internationalizing Education)	1-3	HISTORY 329	History of American Capitalism	4
ECON 364	Survey of International Economics	3-4	HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3

HISTORY 403	Immigration and Assimilation in American History	3-4	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	LITTRANS 252	Spanish Literary Masterpieces in Translation	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	MEDIEVAL/ SPANISH 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	MEDIEVAL/ SPANISH 503	Survey of Medieval Literature	3
HISTORY/ CHICLA 461	The American West to 1850	3-4	MEDIEVAL/ SPANISH 504	Survey of Medieval Literature	3
HISTORY 525	The World and the West from 1492	3-4	MEDIEVAL/ SPANISH 541	Old Spanish	3
HISTORY 533	Multi-Racial Societies in Latin America	3-4	MED HIST 559	Topics in Ethics and History of Medicine	3
HISTORY 555	History of Brazil	3-4	MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	MUSIC 270	Ensemble-Guitar	1
HIST SCI/HISTORY/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	MUSIC 340	Pedagogy	1-2
HORT 370	World Vegetable Crops	3	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
HORT 372	Colloquium in Organic Agriculture	1	MUSIC 469	Interdisciplinary Studies in the Arts	1-4
HORT 374	Tropical Horticulture	2	MUSIC 572	Advanced Ensemble-Classical Guitar	1
ILS 209	Introduction to Global Cultures	3	POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
ILS 401	Global Cultures Capstone Seminar (LACIS related content)	3	POLI SCI 321	Latin-American Politics	3-4
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3	POLI SCI 348	Analysis of International Relations	3-4
INTL BUS/ SPANISH 329	Spanish for Business	3	POLI SCI 350	International Political Economy	3-4
INTL BUS/M H R 403	Global Issues in Management	3	POLI SCI 353	The Third World in the International System	3-4
INTL BUS/ MARKETNG 420	Global Marketing Strategy	3	POLI SCI 359	American Foreign Policy	3-4
INTL ST 101	Introduction to International Studies	3-4	POLI SCI 377	Nuclear Weapons and World Politics	3-4
INTL ST/A A E 373	Globalization, Poverty and Development	3	POLI SCI 400	Topics in Political Science	1-4
INTL ST 402	Topics in Politics and Policy in the Global Economy (LACIS related topic)	3-4	POLI SCI 401	Selected Topics in Political Science	3-4
INTL ST 603	Topics in Culture in the Age of Globalization (LACIS related content)	1-4	POLI SCI 421	The Challenge of Democratization	3-4
JOURN 621	Mass Communication in Developing Nations	4	POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
LACIS/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
LACIS 681	Senior Honors Thesis	3	POLI SCI/ INTL ST 431	Contentious Politics	3-4
LACIS 682	Senior Honors Thesis	3	POLI SCI 652	The Politics of Development	3-4
LACIS 698	Directed Study	1-6	POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease	1
LACIS 699	Directed Study	1-6	POP HLTH 660	Communicating Public Health Information Effectively	1
			PORTUG 361	Portuguese Civilization	3
			PORTUG 362	Brazilian Civilization	3
			PORTUG 364	Historical and Cultural Traditions of Brazil	2
			SOC/C&E SOC 222	Food, Culture, and Society	3

SOC/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SPANISH 260	Latin America: An Introduction	3-4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC 620	Comparative Racial Inequality	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
URB R PL/ GEN&WS 644	International Development and Gender	3
URB R PL/ ENVIR ST 668	Green Politics: Global Experience, American Prospects	3

*Breadth Requirement* 9-12

Select three courses outside the area of concentration from the following:

Additional courses in Spanish and Portuguese language, literature and civilization over the 220 level (see courses listed under the language requirement above)

Courses in Quechua or Yucatec Maya (see courses listed under the language requirement above)

Additional LACIS courses outside the area of concentration(see courses listed above)

<sup>1</sup> The POLI SCI/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/SOC/SPANISH 260 course is a 4-credit, interdepartmental course (crosslisted in anthropology, geography, history, political science, sociology, or Spanish). This course is generally available only in the spring semester. Students are encouraged to take this course as early as possible in their undergraduate careers. A student may also take HISTORY 241 or HISTORY 242 to satisfy this requirement. Occasionally, specially assigned courses will fulfill this requirement.

<sup>2</sup> With approval of the undergraduate advisor, courses in Yucatec Maya or Quechua may apply.

## AREA OF CONCENTRATION

Students must take at least five courses with a minimum of 25 percent Latin American, Caribbean, and/or Iberian content in an area of concentration that the student self-selects. The concentration may be disciplinary (history, anthropology, etc.) or topical (poverty, gender, social justice, etc.). The courses in the area of concentration cannot be Spanish or Portuguese language or literature courses. Study abroad courses often satisfy major requirements, but students should consult with the advisor before and during the study abroad program to ensure that the credits transfer. Courses for the concentration can be chosen from the LACIS Master Course List, or the LACIS-Approved Course List published each semester—both lists are available on the LACIS website. *Note:* These lists may not reflect all current offerings.

## NOTES

Students are encouraged to register in this major by the beginning of the junior year. Those considering a major in Latin American, Caribbean, and Iberian studies should consult the undergraduate advisor as early as possible in their academic career since a number of L&S requirements in humanities and social sciences may be met by courses in Latin American,

Caribbean, and Iberian studies. Students who enter the university without previous training in Spanish or Portuguese are urged to begin language study in the freshman year.

Select at least **15 credits of upper-level work in the major** completed in residence. Courses numbered 300–699 count toward this requirement.

## SAMPLE PROGRAMS

The following list illustrates examples of "area of concentration" programs selected by Latin American, Caribbean, and Iberian studies majors:

- History and Culture Emphasis
- Environment and Development Emphasis
- Media and Politics Emphasis
- Gender Studies and Human Rights Emphasis

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LACIS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in LACIS, taken on the UW–Madison campus

<sup>1</sup> Courses in SPANISH and PORTUG and major courses in ANTHRO numbered 300 higher are considered upper-level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Latin American, Caribbean, and Iberian Studies Major in consultation with the LACIS undergraduate advisor.

## HONORS IN THE LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in LACIS students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all major courses
- Complete 18 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
Select one of the following LACIS Introductory Course taken for Honors:		3-4
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY 242	Modern Latin America, 1898 to the Present	
Senior Capstone Seminar taken for Honors:		1-4
INTL ST 603	Topics in Culture in the Age of Globalization	
Select one of the following Research Experiences:		6



LACIS 681 Senior Honors Thesis  
& LACIS 682 and Senior Honors Thesis

A two-semester research-based alternative

Additional LACIS Honors to achieve 18 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. **Interdisciplinarity:** analyzing contemporary political, economic, and cultural realities in the LACIS regions from multi-disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
2. **Depth of knowledge:** mastering at the undergraduate expert level a particular disciplinary (e.g. history, anthropology etc.) or topical (e.g. poverty, gender, social justice etc.) theme in the LACIS regions by taking five courses in an area of concentration.
3. **Historical and cultural grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in LACIS regions today.
4. **Language knowledge:** mastering at the undergraduate generalist level a particular facet of life in one or more LACIS regions by studying a foreign language to the advanced (3rd year) level and beyond.
5. **Analytical skills:** demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## ADVISING AND CAREERS

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to determine which courses may satisfy major requirements.

Students are encouraged to seek the assistance of L&S Career Services (<http://careers.ls.wisc.edu>) early in their academic career. Take advantage of all the services they offer such as mock interviews, resume

and cover letter review sessions, career preparation workshops, and so on.

Students interested in international internships should contact the International Internships Program (<http://internships.international.wisc.edu>) office.

## PEOPLE

The Latin American, Caribbean, and Iberian Studies (LACIS) teaching staff consists of all faculty ([http://lacis.wisc.edu/content/faculty\\_0](http://lacis.wisc.edu/content/faculty_0)) who teach Latin American, Caribbean, and Iberian language and area content courses.

## RESOURCES AND SCHOLARSHIPS

Undergraduate students (from any major or discipline) can apply to receive one-time funds ([http://lacis.wisc.edu/content/lacis\\_internship\\_grants](http://lacis.wisc.edu/content/lacis_internship_grants)) for internships or volunteer programs in Latin America, the Caribbean, the Iberian Peninsula. Domestic programs will be considered if the work is related to the LACIS field of study. The internships and volunteer programs will be carried out in public institutions, or well-established NGOs. Students from any nationality and citizenship are eligible to apply. *Please note that preference is given to declared LACIS majors.* Please check with the LACIS undergraduate advisor, Sarah Ripp, ([http://lacis.wisc.edu/content/sarah\\_ripp](http://lacis.wisc.edu/content/sarah_ripp)) about your plans before submitting an application to ensure it meets our criteria. Read post-internship reports from former grant recipients. ([http://lacis.wisc.edu/content/lacis\\_research\\_and\\_internship\\_grant\\_reports](http://lacis.wisc.edu/content/lacis_research_and_internship_grant_reports))

## LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES, B.S.

The Latin American, Caribbean, and Iberian Studies Program is one of the major U.S. centers for research about Latin America. This program is for those who seek a multidisciplinary education on Latin America, the Caribbean, Spain, and Portugal. It offers a wide range of courses in fields such as anthropology, business, economics, geography, history, journalism, music, political science, sociology, Spanish and Portuguese, and indigenous languages such as Yucatec Maya.

The aims of the Latin American, Caribbean, and Iberian studies major are to provide:

1. a broad exposure to Latin American, Caribbean, and Iberian studies by requiring students to take area and language content courses;
2. basic working knowledge in Spanish and/or Portuguese;
3. flexibility which allows students to take courses of interest, study abroad, and develop innovative academic projects; and
4. career-related advice and opportunities including volunteer work and internships with international organizations.

Students should contact the undergraduate advisor to determine which courses may satisfy major requirements. A minimum of 40 credits is required for the LACIS major. Upon declaration of the LACIS major, an assessment file is opened for each student which will include:

1. the development and submission of an "area of concentration,"

2. writing samples,
3. results of a language proficiency exam, and
4. an exit survey.

## HOW TO GET IN

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to declare the major and to determine which courses may satisfy major requirements.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT
	Limit one each: COMP SCI, STAT

Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit 2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<i>Introductory Requirement</i>		
Select one of the following: <sup>1</sup>		3-4
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/GEORG/ HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY 242	Modern Latin America, 1898 to the Present	
<i>Language Requirement</i>		12-16
Students must either complete or test out of the fourth semester of Spanish or Portuguese.		
Students must also take an additional four courses in Spanish and/or Portuguese language, literature, and civilization above the 220 level. <sup>2</sup>		
ANTHRO 330	Topics in Ethnology (Section 004)	3-4
LACIS/ANTHRO 361	Elementary Quechua	4
LACIS/ANTHRO 362	Elementary Quechua	4
LACIS/ANTHRO 363	Intermediate Quechua	4
LACIS/ANTHRO 364	Advanced Quechua	4
LACIS/ANTHRO 376	First Semester Yucatec Maya	4

LACIS/ANTHRO 377	Second Semester Yucatec Maya	4	SPANISH 299	Directed Study	1-3
PORTUG 207	Portuguese for Business	4	SPANISH 311	Advanced Language Practice	3
PORTUG 221	Introduction to Luso-Brazilian Literatures	4	SPANISH 319	Topics in Spanish Language Practice	1-3
PORTUG 225	Third Year Conversation and Composition	3	SPANISH 320	Spanish Phonetics	3
PORTUG 226	Third Year Conversation and Composition	3	SPANISH 321	The Structure of Modern Spanish	3
PORTUG 230	Brazil and Brazilians in the United States	3	SPANISH 322	Survey of Early Hispanic Literature	3
PORTUG 299	Directed Study	1-3	SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	3
PORTUG 301	Intensive Portuguese	4	SPANISH 324	Survey of Modern Spanish Literature	3
PORTUG 302	Intensive Portuguese	4	SPANISH 325	Advanced Conversation	3
PORTUG 311	Fourth Year Composition and Conversation	3	SPANISH 326	Survey of Spanish American Literature	3
PORTUG 312	Fourth Year Composition and Conversation	3	SPANISH 327	Introduction to Spanish Linguistics	3
PORTUG 330	History of the Portuguese Language	3	SPANISH/INTL BUS 329	Spanish for Business	3
PORTUG 361	Portuguese Civilization	3	SPANISH 331	Spanish Applied Linguistics	3
PORTUG 362	Brazilian Civilization	3	SPANISH 359	Spanish Business Area Studies	3
PORTUG 364	Historical and Cultural Traditions of Brazil	2	SPANISH 361	Spanish Civilization	3
PORTUG 411	Survey of Portuguese Literature before 1825	3	SPANISH 363	Spanish American Civilization	3
PORTUG 412	Survey of Brazilian Literature before 1890	3	SPANISH/MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
PORTUG/FRENCH/ITALIAN/SPANISH 429	Introduction to the Romance Languages	3	SPANISH 417	Literatura del Siglo de Oro	3-4
PORTUG/GEN&WS 450	Brazilian Women Writers	3	SPANISH/FRENCH/ITALIAN/PORTUG 429	Introduction to the Romance Languages	3
PORTUG/AFRICAN 451	Lusophone African Literature	3	SPANISH 435	Cervantes	3
PORTUG/GEN&WS 460	Carmen Miranda	3	SPANISH 446	Topics in Spanish Linguistics	3
PORTUG 467	Survey of Portuguese Literature since 1825	3	SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
PORTUG 468	Survey of Brazilian Literature since 1890	3	SPANISH 453	Literature of the Twentieth Century	3
PORTUG 573	Topics in Portuguese: Study Abroad	1-6	SPANISH/CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
PORTUG 640	Topics in Luso-Brazilian Literature	3	SPANISH 460	Literatura Hispanoamericana	3
PORTUG 642	Topics in Luso-Brazilian Culture	3	SPANISH 461	The Spanish American Short Story	3
PORTUG 681	Senior Honors Thesis	3	SPANISH 462	Spanish American Theater and Drama	3
PORTUG 682	Senior Honors Thesis	3	SPANISH 463	The Spanish American Novel	3
PORTUG 699	Directed Study	1-6	SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 223	Introduction to Hispanic Cultures	3	SPANISH 465	Literature and Film in Spanish America	3
SPANISH 224	Introduction to Hispanic Literatures	3	SPANISH 466	Topics in Spanish American Literature	1
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3	SPANISH 468	Topics in Hispanic Culture	3
SPANISH/AFROAMER/ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4	SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	3
			SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/ Linguistics	3
			SPANISH 471	Topics in Hispanic Literature	3
			SPANISH 472	Hispanic Screen Studies	3
			SPANISH 473	Study Abroad in Spanish Language Practice	1-4
			SPANISH 474	Study Abroad in Spanish Linguistics	1-4

SPANISH 475	Study Abroad in Hispanic Literatures	1-4	A A E/ECON/ INTL BUS 462	Latin American Economic Development	3
SPANISH 476	Study Abroad in Hispanic Cultures	1-4	AFRICAN/ PORTUG 451	Lusophone African Literature	3
SPANISH 501	Survey of Spanish American Literature from the Discovery to Modernismo	3	AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
SPANISH 502	Survey of Spanish American Literature from Modernismo to the Present	3	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
SPANISH/ MEDIEVAL 503	Survey of Medieval Literature	3	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
SPANISH/ MEDIEVAL 504	Survey of Medieval Literature	3	AFROAMER/ ART HIST 643	Selected Topics in African Diaspora Art History (LACIS related topic)	3
SPANISH 505	Advanced Survey of Spanish Literature	3	AGRONOMY 377	Cropping Systems of the Tropics	3
SPANISH 506	Advanced Survey of Spanish Literature	3	AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
SPANISH/ MEDIEVAL 541	Old Spanish	3	ANTHRO 102	Archaeology and the Prehistoric World	3
SPANISH 543	Spanish Phonology	3	ANTHRO 104	Cultural Anthropology and Human Diversity	3
SPANISH 544	Contemporary Issues in Applied Spanish Linguistics	3	ANTHRO 212	Principles of Archaeology	3
SPANISH 545	College Teaching of Spanish	2	ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3
SPANISH 548	Structure of the Spanish Language: Morphology and Syntax	3	ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
SPANISH 564	Theory and Practice of Hispanic Theatre	4	ANTHRO 310	Topics in Archaeology (LACIS related content)	3
SPANISH 627	Historia de Teoria Literaria: de Platon Al Siglo XVIII	3	ANTHRO 322	The Origins of Civilization	3
SPANISH 628	Historia de Teoria Literaria: Siglos XIX-XX	3	ANTHRO 327	Peoples of the Andes Today	3
SPANISH 630	Topics in Hispanic Linguistics	3	ANTHRO/LACIS 361	Elementary Quechua	4
SPANISH 681	Senior Honors Thesis	3	ANTHRO/LACIS 362	Elementary Quechua	4
SPANISH 682	Senior Honors Thesis	3	ANTHRO/LACIS 363	Intermediate Quechua	4
SPANISH 691	First Semester Senior Thesis	3	ANTHRO/LACIS 364	Advanced Quechua	4
SPANISH 692	Second Semester Senior Thesis	3	ANTHRO 490	Undergraduate Seminar (LACIS related topic)	3
SPANISH 699	Directed Study	1-6	ART HIST 390	Pre-Columbian Art	3-4
<i>Area of Concentration</i>		15-20	ART HIST 500	Proseminar: Special Topics in Art History (LACIS related content)	3
Students must take at least five courses in an area of concentration that the student self-selects.			BOTANY 400	Plant Systematics	4
The concentration may be disciplinary (history, anthropology etc.) or topical (poverty, gender, social justice etc). The courses in the area of concentration CAN NOT be Spanish or Portuguese language or literature courses.			BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	3	CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3	CHICLA 301	Chicana/o and Latina/o History	3
A A E/INTL ST 373	Globalization, Poverty and Development	3	CHICLA/ HISTORY 461	The American West to 1850	3-4
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3	CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4
A A E 375	Special Topics (LACIS-related topic only)	1-4	CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies	1-4

C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	3	GEOG 104	Introduction to Human Geography	3
C&E SOC/F&W ECOL/SOC 248	Environment, Natural Resources, and Society	3	GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3	GEOG/ENVIR ST 339	Environmental Conservation	4
C&E SOC/SOC 630	Sociology of Developing Societies/ Third World	3	GEOG 340	World Regions in Global Context	3
COMP LIT 202	Introduction to Modern and Contemporary Literature	3	GEOG 348	Latin America	4
COMP LIT 205	Intro to Comparative Study of Race & Ethnicity, In & Beyond the U.S.	3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
COUN PSY 620	Special Topics in Counseling and Guidance (LACIS related content)	1-6	HISTORY 240	Colonial Latin America from Conquest to Insurgency	4
CURRIC 243	Practicum in World Languages (K-12)	3	HISTORY 278	Africans in the Americas, 1492-1808	3-4
CURRIC 375	Proseminar (Internationalizing Education)	1-3	HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
ECON 364	Survey of International Economics	3-4	HISTORY 329	History of American Capitalism	4
ECON 448	Human Resources and Economic Growth	3-4	HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
ECON/A A E/ INTL BUS 462	Latin American Economic Development	3	HISTORY 403	Immigration and Assimilation in American History	3-4
ECON 464	International Trade and Finance	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
ECON 467	International Industrial Organizations	3-4	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
ECON/A A E 474	Economic Problems of Developing Areas	3	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
ECON 475	Economics of Growth	3-4	HISTORY/ CHICLA 461	The American West to 1850	3-4
ECON/A A E 567	Public Finance in Less Developed Countries	3	HISTORY 525	The World and the West from 1492	3-4
ENVIR ST 200	Special Topics in Environmental Studies (LACIS related content)	1-4	HISTORY 533	Multi-Racial Societies in Latin America	3-4
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3	HISTORY 555	History of Brazil	3-4
ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3	HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
ENVIR ST/ATM OCN/ GEOG 528	Past Climates and Climatic Change	3	HIST SCI/HISTORY/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
F&W ECOL 100	Introduction to Forestry	2	HORT 370	World Vegetable Crops	3
F&W ECOL 375	Special Topics (LACIS related content)	1-4	HORT 372	Colloquium in Organic Agriculture	1
F&W ECOL 379	Principles of Wildlife Management	3	HORT 374	Tropical Horticulture	2
F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3	ILS 209	Introduction to Global Cultures	3
GEN&WS 102	Gender, Women, and Society in Global Perspective	3	ILS 401	Global Cultures Capstone Seminar (LACIS related content)	3
GEN&WS 424	Women's International Human Rights	3	INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3	INTL BUS/ SPANISH 329	Spanish for Business	3
GEN&WS/ PORTUG 460	Carmen Miranda	3	INTL BUS/M H R 403	Global Issues in Management	3
GEOG 101	Introduction to Human Geography	4	INTL BUS/ MARKETNG 420	Global Marketing Strategy	3
			INTL ST 101	Introduction to International Studies	3-4
			INTL ST/A A E 373	Globalization, Poverty and Development	3

INTL ST 402	Topics in Politics and Policy in the Global Economy (LACIS related topic)	3-4	POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
INTL ST 603	Topics in Culture in the Age of Globalization (LACIS related content)	1-4	POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
JOURN 621	Mass Communication in Developing Nations	4	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
LACIS/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	POLI SCI/ INTL ST 431	Contentious Politics	3-4
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4	POLI SCI 652	The Politics of Development	3-4
LACIS 681	Senior Honors Thesis	3	POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease	1
LACIS 682	Senior Honors Thesis	3	POP HLTH 660	Communicating Public Health Information Effectively	1
LACIS 698	Directed Study	1-6	PORTUG 361	Portuguese Civilization	3
LACIS 699	Directed Study	1-6	PORTUG 362	Brazilian Civilization	3
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	PORTUG 364	Historical and Cultural Traditions of Brazil	2
LITTRANS 252	Spanish Literary Masterpieces in Translation	3	SOC/C&E SOC 222	Food, Culture, and Society	3
MEDIEVAL/ SPANISH 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3	SOC/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SPANISH 260	Latin America: An Introduction	3-4
MEDIEVAL/ SPANISH 503	Survey of Medieval Literature	3	SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
MEDIEVAL/ SPANISH 504	Survey of Medieval Literature	3	SOC 620	Comparative Racial Inequality	3
MEDIEVAL/ SPANISH 541	Old Spanish	3	SOC 626	Social Movements	3
MED HIST 559	Topics in Ethics and History of Medicine	3	SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	URB R PL/ GEN&WS 644	International Development and Gender	3
MUSIC 270	Ensemble-Guitar	1	URB R PL/ ENVR ST 668	Green Politics: Global Experience, American Prospects	3
MUSIC 340	Pedagogy	1-2	<i>Breadth Requirement</i>		9-12
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	Select three courses outside the area of concentration from the following:		
MUSIC 469	Interdisciplinary Studies in the Arts	1-4	Additional courses in Spanish and Portuguese language, literature and civilization over the 220 level (see courses listed under the language requirement above)		
MUSIC 572	Advanced Ensemble-Classical Guitar	1	Courses in Quechua or Yucatec Maya (see courses listed under the language requirement above)		
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4	Additional LACIS courses outside the area of concentration(see courses listed above)		
POLI SCI 321	Latin-American Politics	3-4			
POLI SCI 348	Analysis of International Relations	3-4			
POLI SCI 350	International Political Economy	3-4			
POLI SCI 353	The Third World in the International System	3-4			
POLI SCI 359	American Foreign Policy	3-4			
POLI SCI 377	Nuclear Weapons and World Politics	3-4			
POLI SCI 400	Topics in Political Science	1-4			
POLI SCI 401	Selected Topics in Political Science	3-4			
POLI SCI 421	The Challenge of Democratization	3-4			

<sup>1</sup> The POLI SCI/AFROAMER/ANTHRO/C&E SOC/GEOG/HISTORY/LACIS/SOC/SPANISH 260 course is a 4-credit, interdepartmental course (crosslisted in anthropology, geography, history, political science, sociology, or Spanish). This course is generally available only in the spring semester. Students are encouraged to take this course as early as possible in their undergraduate careers. A student may also take HISTORY 241 or HISTORY 242 to satisfy this requirement. Occasionally, specially assigned courses will fulfill this requirement.

<sup>2</sup> With approval of the undergraduate advisor, courses in Yucatec Maya or Quechua may apply.

## AREA OF CONCENTRATION

Students must take at least five courses with a minimum of 25 percent Latin American, Caribbean, and/or Iberian content in an area of concentration that the student self-selects. The concentration may be disciplinary (history, anthropology, etc.) or topical (poverty, gender, social justice, etc.). The courses in the area of concentration cannot be Spanish or Portuguese language or literature courses. Study abroad courses often satisfy major requirements, but students should consult with the advisor before and during the study abroad program to ensure that the credits transfer. Courses for the concentration can be chosen from the LACIS Master Course List, or the LACIS-Approved Course List published each semester—both lists are available on the LACIS website. *Note:* These lists may not reflect all current offerings.

## NOTES

Students are encouraged to register in this major by the beginning of the junior year. Those considering a major in Latin American, Caribbean, and Iberian studies should consult the undergraduate advisor as early as possible in their academic career since a number of L&S requirements in humanities and social sciences may be met by courses in Latin American, Caribbean, and Iberian studies. Students who enter the university without previous training in Spanish or Portuguese are urged to begin language study in the freshman year.

Select at least **15 credits of upper-level work in the major** completed in residence. Courses numbered 300–699 count toward this requirement.

## SAMPLE PROGRAMS

The following list illustrates examples of "area of concentration" programs selected by Latin American, Caribbean, and Iberian studies majors:

- History and Culture Emphasis
- Environment and Development Emphasis
- Media and Politics Emphasis
- Gender Studies and Human Rights Emphasis

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LACIS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in LACIS, taken on the UW–Madison campus

<sup>1</sup> Courses in SPANISH and PORTUG and major courses in ANTHRO numbered 300 and higher are considered upper-level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Latin American, Caribbean, and Iberian Studies Major in consultation with the LACIS undergraduate advisor.

## HONORS IN THE LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in LACIS students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all major courses
- Complete 18 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
Select one of the following LACIS Introductory Course taken for Honors:		3-4
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY 242	Modern Latin America, 1898 to the Present	
Senior Capstone Seminar taken for Honors:		1-4
INTL ST 603	Topics in Culture in the Age of Globalization	
Select one of the following Research Experiences:		6
LACIS 681 & LACIS 682	Senior Honors Thesis and Senior Honors Thesis	
A two-semester research-based alternative		
Additional LACIS Honors to achieve 18 credits		

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. **Interdisciplinarity:** analyzing contemporary political, economic, and cultural realities in the LACIS regions from multi-disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
2. **Depth of knowledge:** mastering at the undergraduate expert level a particular disciplinary (e.g. history, anthropology etc.) or topical (e.g. poverty, gender, social justice etc.) theme in the LACIS regions by taking five courses in an area of concentration.
3. **Historical and cultural grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in LACIS regions today.

- Language knowledge:** mastering at the undergraduate generalist level a particular facet of life in one or more LACIS regions by studying a foreign language to the advanced (3rd year) level and beyond.
- Analytical skills:** demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## ADVISING AND CAREERS

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to determine which courses may satisfy major requirements.

Students are encouraged to seek the assistance of L&S Career Services (<http://careers.ls.wisc.edu>) early in their academic career. Take advantage of all the services they offer such as mock interviews, resume and cover letter review sessions, career preparation workshops, and so on.

Students interested in international internships should contact the International Internships Program (<http://internships.international.wisc.edu>) office.

## PEOPLE

The Latin American, Caribbean, and Iberian Studies (LACIS) teaching staff consists of all faculty ([http://lacis.wisc.edu/content/faculty\\_0](http://lacis.wisc.edu/content/faculty_0)) who teach Latin American, Caribbean, and Iberian language and area content courses.

## RESOURCES AND SCHOLARSHIPS

Undergraduate students (from any major or discipline) can apply to receive one-time funds ([http://lacis.wisc.edu/content/lacis\\_internship\\_grants](http://lacis.wisc.edu/content/lacis_internship_grants)) for internships or volunteer programs in Latin America, the Caribbean, the Iberian Peninsula. Domestic programs will be considered if the work is related to the LACIS field of study. The internships and volunteer programs will be carried out in public institutions, or well-established NGOs. Students from any nationality and citizenship are eligible to apply. *Please note that preference is given to declared LACIS majors.* Please check with the LACIS undergraduate advisor, Sarah Ripp, ([http://lacis.wisc.edu/content/sarah\\_ripp](http://lacis.wisc.edu/content/sarah_ripp)) about your plans before submitting an application to ensure it meets our criteria. Read post-internship reports from former grant recipients. ([http://lacis.wisc.edu/content/lacis\\_research\\_and\\_internship\\_grant\\_reports](http://lacis.wisc.edu/content/lacis_research_and_internship_grant_reports))

## MIDDLE EAST STUDIES, CERTIFICATE

The purpose of the Middle East Studies Program is to combine training in a discipline or profession with insight and knowledge about the culture, languages, and problems of the area. The program adopts the basic philosophy that it is necessary to develop a new practical approach to the study of the Middle East by first acquiring sound training in a discipline or profession and then by applying the methods and concepts of that discipline and profession, as well as skills of inquiry and research, to specific problems in the Middle East. Economic planning,

law reform and institution building, urbanization, demography, housing, nutrition, agriculture, land problems, the organization and development of educational systems, and technical and vocational training at all levels are some of the fields covered by the program. The University of Wisconsin–Madison has extensive and unique resources in these fields, and it offers a broad range of courses on the languages, history, culture, and literature of the region.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the Middle East Studies Program office or the undergraduate advisor, Csanád Siklós, 262-5006; [siklos@wisc.edu](mailto:siklos@wisc.edu).

## REQUIREMENTS

The Middle East Studies Program offers an undergraduate certificate in Middle East studies. Requirements for the certificate include the interdisciplinary core course Introduction to the Middle East, which should be taken as early as possible in the sequence of courses for the certificate. The certificate requires **18 credits** total.

## CERTIFICATE REQUIREMENTS

Code	Title	Credits
<b>Core Course (select one):</b>		
LCA 266	Introduction to the Middle East	
LCA 300	Topics in Languages and Cultures of Asia	
<b>Additional Courses</b>		
Select a second semester of a selected Middle Eastern language		
Select one course in history and social science (3 credits)		
Select one course in religion and culture (3 credits)		
Select additional courses in history and social science; religion and culture; or other electives (including up to 3 credits of advanced Middle Eastern language) to reach the 18 credit minimum for the Certificate.		

## MIDDLE EASTERN LANGUAGE COURSES

Code	Title	Credits
HEBR-MOD 102	Second Semester Hebrew	4
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	3
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	3
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
AFRICAN/ LCA LANG 445	Readings in Advanced Arabic Texts	3
AFRICAN/ LCA LANG 446	Readings in Advanced Arabic Texts	3
LCA LANG 539	Fifth Semester Turkish and Azeri	3
LCA LANG 540	Sixth Semester Turkish and Azeri	3



LCA LANG 563	Fifth Semester Persian	3
LCA LANG 564	Sixth Semester Persian	3
LCA LANG 631	Advanced Readings in Turkic Languages	3
LCA LANG 644	Readings in Otoman Turkish and Chagatay	3

## HISTORY AND SOCIAL SCIENCE COURSES

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST/LCA 379	Cities of Asia	3
AFRICAN/ LCA LANG 445	Readings in Advanced Arabic Texts	3
AFRICAN/ LCA LANG 446	Readings in Advanced Arabic Texts	3
HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4
HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY 500	Reading Seminar in History	3
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
INTL ST 320	Contemporary Issues in International Studies (When topic is Middle East-related)	1-4
INTL ST 401	Topics in Global Security	3-4
POLI SCI 333	International Politics of the Middle East	3-4
POLI SCI 401	Selected Topics in Political Science	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI/ RELIG ST 618	Political Islam	3-4
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4

## RELIGION AND CULTURE COURSES

Code	Title	Credits
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	3-4

ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST/LCA 428	Visual Cultures of South Asia	3
ART HIST 440	Art and Power in the Arab World	3
ART HIST 500	Proseminar: Special Topics in Art History	3
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	3-4
CLASSICS/JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
CLASSICS 370	Classical Mythology	3
CLASSICS/ JEWISH 451	Biblical Archaeology	3
CLASSICS/HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	3
COMP LIT 500	The Comparative In and Beyond Comparative Literature	3
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2
HEBR-BIB 103	Elementary Biblical Hebrew, I	4
HEBR-BIB 104	Elementary Biblical Hebrew, II	4
HEBR-BIB 303	Elementary Biblical Hebrew, I	3
HEBR-BIB 304	Elementary Biblical Hebrew, II	3
HEBR-BIB 323	Intermediate Biblical Hebrew, I	4
HEBR-BIB 324	Intermediate Biblical Hebrew, II	4
HEBR-BIB/ CLASSICS/JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	3
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	3
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
INTL ST 310	International Learning Community Seminar (When topic is Middle East-related)	1-3
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH 343	Israeli Fiction in Translation	3-4
JEWISH/CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
LCA/RELIG ST 206	Introduction to the Qur'an	4
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3

LCA 300	Topics in Languages and Cultures of Asia	3	LCA 100	Introduction to Cultures of Asia	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3	LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3
LCA/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3	LCA 314	Literatures of Central Asia	3
LITTRANS/RELIG ST 257	Literatures of Muslim Societies in Translation	3	LCA/RELIG ST/SOC 614	Social Structures of Muslim Societies	3
LITTRANS/JEWISH 318	Modern Jewish Literature	3-4	LCA 579	Fiction and Ethnography in Turkey	3
RELIG ST 101	Religion in Global Perspective	3	LCA 610	Proseminar: Introduction to Turkic Linguistics	3
RELIG ST/HISTORY/LCA 205	The Making of the Islamic World: The Middle East, 500-1500	3-4	LCA 640	Proseminar in Central Asian History	3
RELIG ST/LCA 206	Introduction to the Qur'an	4	LCA LANG 539	Fifth Semester Turkish and Azeri <sup>1</sup>	3
RELIG ST/HISTORY 230	Judaism, Christianity, and Islam: Braided Histories	3	LCA LANG 540	Sixth Semester Turkish and Azeri <sup>1</sup>	3
			LCA LANG 563	Fifth Semester Persian <sup>1</sup>	3
			LCA LANG 564	Sixth Semester Persian <sup>1</sup>	3
			LCA LANG 631	Advanced Readings in Turkic Languages <sup>1</sup>	3
			LCA LANG 644	Readings in Ottoman Turkish and Chagatay <sup>1</sup>	3
			LITTRANS 214	Literatures of Central Asia in Translation	3
			POLI SCI 333	International Politics of the Middle East	3-4
			RELIG ST 400	Topics in Religious Studies - Humanities	3-4
			RELIG ST 401	Topics in Religious Studies - Social Studies	3-4
			HEBR-MOD/JEWISH 301	Introduction to Hebrew Literature <sup>1</sup>	3
			HEBR-MOD/JEWISH 302	Introduction to Hebrew Literature <sup>1</sup>	3
			HEBR-MOD/JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I <sup>1</sup>	3
			HEBR-MOD/JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II <sup>1</sup>	3

### ADDITIONAL COURSES (ELECTIVES) 3 CREDITS OF ADVANCED LANGUAGE MAY BE USED TOWARD THE REQUIREMENT.

Code	Title	Credits
AFRICAN/LCA LANG 445	Readings in Advanced Arabic Texts <sup>1</sup>	3
AFRICAN/LCA LANG 446	Readings in Advanced Arabic Texts <sup>1</sup>	3
AFRICAN 669	Special Topics	3
ANTHRO 322	The Origins of Civilization	3
ANTHRO/RELIG ST 343	Anthropology of Religion	3-4
ANTHRO/LCA/LINGUIS 430	Language and Culture	3-4
CLASSICS 376	Love Poetry of the Ancient Mediterranean	3
CLASSICS/HISTORY/RELIG ST 517	Religions of the Ancient Mediterranean	3
CLASSICS 602	The Ancient Mediterranean City	3
FRENCH 211	French Interdisciplinary Studies	3
HISTORY/MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY/GEN&WS/LCA 472	Women in Turkish Society	3
HISTORY/HIST SCI/MED HIST/MEDIEVAL/S&A PHM 562	Byzantine Medicine and Pharmacy	3
JEWISH/CLASSICS/LITTRANS/RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/PHILOS/RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3

<sup>1</sup> Course counts as Advanced Language.

### RESIDENCE AND QUALITY OF WORK

9 credits, counting toward the certificate, taken in residence

A cumulative 2.000 GPA for all courses counting toward the certificate

### LEARNING OUTCOMES

- Historical and Cultural Grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
- Multi-disciplinarity:** analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
- Depth of knowledge:** mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline

## ADVISING AND CAREERS

Advising for the Certificate is run by the Institute for Regional and International Studies (IRIS). The IRIS Assistant Director for Students and Curriculum can assist you in developing your plan of study for the Certificate, track progress towards your Certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

Resources:

- Make a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Middle East Studies Program Steering Committee: El Nossery, Layoun, Pruitt, Quraishi-Landes, Schamiloglu, Shelef.

## RUSSIAN, EAST EUROPEAN, AND CENTRAL ASIAN STUDIES, CERTIFICATE

(For information on a major in Russian language and literature, Russian language and civilization, or Polish language and literature, see Slavic Languages and Literature ([http://slavic.lss.wisc.edu/new\\_web](http://slavic.lss.wisc.edu/new_web)).

The undergraduate certificate program in Russian, East European, and Central Asian studies seeks to provide undergraduate students with area knowledge of the societies and cultures of the peoples of Eastern Europe and Eurasia, drawing on the disciplines of anthropology, communication arts, economics, folklore, geography, history, language and literature, law, political science, and sociology. The certificate can be a valuable addition to a major in business, economics, education, geography, history, international studies, political science, Slavic languages and literature, and other departments.

Applicants must fulfill the UW–Madison requirements for an established major in their school or college and achieve a minimum GPA of 2.5 in all courses they wish to count toward the certificate. Courses may **not** be taken on a pass/fail basis. At least two years of a Slavic, East European, or Central Asian language are strongly recommended for the certificate, but are not formally required.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the Center for Russia, East Europe and Central Asia (GREECA) office or the undergraduate advisor, Csanád Siklós, 262-5006; [siklos@wisc.edu](mailto:siklos@wisc.edu).

## REQUIREMENTS

Certificate students must complete successfully **seven courses** for the certificate:

Code	Title	Credits
	Select one interdisciplinary course (Group I)	
	Select three courses in history and the social sciences representing at least two different departments (Group II)	
	Select three courses in literature and the arts (Group III)	

Students who complete more than one course in Group I may count the additional courses toward fulfillment of Group II or III. Language courses do not count toward the certificate.

Students are encouraged to consult with the certificate advisor and declare the certificate as early as possible in their college careers in order to select an academically focused group of courses. The certificate will be awarded following successful graduation.

## COURSES

### GROUP 1—INTERDISCIPLINARY

Code	Title	Credits
HISTORY/POLI SCI/ GEOG/SLAVIC 253	Russia: An Interdisciplinary Survey	4
HISTORY/POLI SCI/ GEOG/SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3

### GROUP II—HISTORY AND THE SOCIAL SCIENCES

#### Agricultural and Applied Economics

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON 474	Economic Problems of Developing Areas	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

#### Anthropology

Code	Title	Credits
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
ANTHRO/JEWISH/ RELIG ST 372	Jews of Central and Eastern Europe	3-4

ANTHRO 606 Ethnicity, Nations, and Nationalism<sup>1</sup> 3-4

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Economics

Code	Title	Credits
ECON 364	Survey of International Economics <sup>1</sup>	3-4
ECON 464	International Trade and Finance	3-4

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Geography

Code	Title	Credits
GEOG 318	Introduction to Geopolitics <sup>1</sup>	3
GEOG 353	Russia and the NIS-Topical Analysis	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### History

Code	Title	Credits
HISTORY 200	Historical Studies <sup>1</sup> When topic is Russia, Eastern Europe or Central Asia related	3
HISTORY 201	The Historian's Craft <sup>1</sup> When topic is Russia, Eastern Europe or Central Asia related	3-4
HISTORY 223	Explorations in European History (H) <sup>1</sup>	3-4
HISTORY/MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/MEDIEVAL 314	Problems in Byzantine History and Civilization <sup>1</sup>	3-4
HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
HISTORY 357	The Second World War	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY/JEWISH 373	Modern Political History of the Jews: 1655-1919	4
HISTORY/JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY/JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4
HISTORY 417	History of Russia	3-4
HISTORY 418	History of Russia	3-4
HISTORY 419	History of Soviet Russia	3-4
HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4

HISTORY/GEN&WS/LCA 472 Women in Turkish Society 3

HISTORY 475 European Social History, 1914-Present 3-4

HISTORY 500 Reading Seminar in History<sup>1</sup> 3

HISTORY/CURRIC/JEWISH 515 Holocaust: History, Memory and Education 3

HISTORY/JEWISH/RELIG ST 529 Intellectual and Religious History of European Jewry, 1648-1939 4

HISTORY 540 Balkans and Middle East, 1700-1918: The Rise of National States 3-4

HISTORY/HIST SCI/MED HIST/MEDIEVAL/S&A PHM 562 Byzantine Medicine and Pharmacy 3

HISTORY 600 Advanced Seminar in History<sup>1</sup> 3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Jewish Studies

Code	Title	Credits
JEWISH 490	Topics in Jewish Studies <sup>1</sup>	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Journalism and Mass Communication

Code	Title	Credits
JOURN 620	International Communication <sup>1</sup>	4
JOURN 621	Mass Communication in Developing Nations <sup>1</sup>	4

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Languages and Cultures of Asia

Code	Title	Credits
LCA 640	Proseminar in Central Asian History	3

### Political Science

Code	Title	Credits
POLI SCI 120	Politics Around the World	4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 401	Selected Topics in Political Science <sup>1</sup>	3-4
POLI SCI/INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/RELIG ST 618	Political Islam <sup>1</sup>	3-4
POLI SCI 334	Russian Politics	3-4
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Sociology

Code	Title	Credits
SOC 496	Topics in Sociology <sup>1</sup>	1-3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies <sup>1</sup>	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/ECON 663	Population and Society <sup>1</sup>	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

## GROUP III—LITERATURE AND THE ARTS

### Communication Arts

Code	Title	Credits
COM ARTS 456	Russian and Soviet Film	3
COM ARTS 463	Avant-Garde Film	3

### Comparative Literature

Code	Title	Credits
COMP LIT 202	Introduction to Modern and Contemporary Literature <sup>1</sup>	3
COMP LIT 350	Problems in Comparative Literatures and Cultures	3-4

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### English

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	3

### Folklore

Code	Title	Credits
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/ RELIG ST 352	Shamanism	3
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE 460	Folk Epics <sup>1</sup>	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Jewish Studies

Code	Title	Credits
JEWISH/GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	3

### Languages and Cultures of Asia

Code	Title	Credits
LCA 236	Bascom Course <sup>1</sup>	3
LCA 314	Literatures of Central Asia	3

LCA/RELIG ST 357	Literatures of Muslim Societies	3
LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	4
LCA 579	Fiction and Ethnography in Turkey	3
LCA 610	Proseminar: Introduction to Turkic Linguistics	3
LCA 615	Writing Travels <sup>1</sup>	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Literature in Translation

Code	Title	Credits
LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	3
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	3
LITTRANS 214	Literatures of Central Asia in Translation	3
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
LITTRANS 220	Chekhov in Translation	3-4
LITTRANS 221	Gogol in Translation	3-4
LITTRANS 222	Dostoevsky in Translation	3-4
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3
LITTRANS 224	Tolstoy in Translation	3-4
LITTRANS 229	Representation of the Jew in Eastern European Cultures	3
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
LITTRANS 236	Bascom Course-In Translation <sup>1</sup>	3
LITTRANS 240	Soviet Literature in Translation	3-4
LITTRANS 241	Literatures and Cultures of Eastern Europe	3
LITTRANS 247	Topics in Slavic Literatures in Translation	3
LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation <sup>1</sup>	3
LITTRANS/GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	3
LITTRANS 329	The Vampire in Literature and Film	3
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context	3

LITTRANS 454	History of Serbian and Croatian Literature	3
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Scandinavian Studies

Code	Title	Credits
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4

### Slavic Languages and Literature

Code	Title	Credits
SLAVIC 242	Literatures and Cultures of Eastern Europe	3
SLAVIC 245	Topics in Slavic Literatures	3
SLAVIC 285	Slavic Culture in Context: An Honors Course	3
SLAVIC 302	Zarys historii literatury polskiej	3
SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
SLAVIC 342	Uvod u srpsku i hrvatsku literaturu	3
SLAVIC 350	Special Topics in Russian Language, Literature, and Culture	3
SLAVIC 405	Women in Russian Literature	3-4
SLAVIC 420	Chekhov	3-4
SLAVIC 421	Gogol	3-4
SLAVIC 422	Dostoevsky	3-4
SLAVIC 424	Tolstoy	3-4
SLAVIC 439	Russia Today in Literature and Film	4
SLAVIC 440	Soviet Literature	3-4
SLAVIC 449	Istorija srpske i hrvatske literature	3
SLAVIC 454	Moderna srpska i hrvatska literatura	3
SLAVIC 470	Historia literatury polskiej do roku 1863	3
SLAVIC 472	Historia literatury polskiej po roku 1863	3
SLAVIC/ THEATRE 532	History of Russian Theatre	3
SLAVIC 699	Directed Study <sup>1</sup>	1-6

<sup>1</sup> When topic is Russia, Eastern Europe, or Central Asia

### Theatre and Drama

Code	Title	Credits
THEATRE/ SLAVIC 532	History of Russian Theatre	3

### RESIDENCE AND QUALITY OF WORK

11 credits, counting toward the certificate, taken in residence

A cumulative 2.500 GPA for all coursework counting toward the certificate

## LEARNING OUTCOMES

- 1. Regional Understanding:** Students should demonstrate an understanding of the cultural, political, economic, social, and historical factors that have shaped the development of societies in Eurasia, Russia, and East and Central Europe.
- 2. Multi-disciplinarity:** Students should be able to analyze the historical, political, economic, social, and cultural realities in the region from at least two disciplinary perspectives, including both humanities and social sciences approaches.

## ADVISING AND CAREERS

Advising for the certificate is administered by the Institute for Regional and International Studies (IRIS). The IRIS assistant director for students and curriculum can assist you in developing your plan of study for the certificate, track progress toward your certificate, explore study abroad and international internship options, and begin the career-exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

### Resources:

- Make a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

**Faculty:** Belodubrovskaya, Brenner, Buenger, Chamberlain, Ciancia, Dale, Danaher, Derin, Dolinin, DuBois, Evans-Romaine, Filipowicz, Gehlbach, Gerber, Hendley, Herrera, Hirsch, Johnson, Kaiser, Kepley, Lapina, Livanos, Longinovic, McDonald, Michels, Miernowska, Neville, Radeloff, Reynolds, Schamiloglu, Shevelenko, Tishler, Tumarkin, van de Water, Wink, Yudkoff

## SOUTH ASIAN STUDIES, CERTIFICATE

### SOUTH ASIAN STUDIES CERTIFICATE PROGRAM

Undergraduates interested in cross-disciplinary study of South Asia (generally defined as the countries of Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan, Sri Lanka, and the Tibetan region) may earn a certificate in South Asian studies. The certificate can be a valuable addition to a major in anthropology, archeology, business, communications, economics, education, gender and women's studies, geography, history, international studies, journalism, languages and

cultures of Asia, political science, zoology, and other departments. Completion of the certificate provides a concentration in the area through language and/or interdisciplinary training that provides enhanced career opportunities or increased preparation for graduate study.

The certificate in South Asian studies can be partially fulfilled through completion of a study abroad program in India administered by International Academic Programs (<http://www.studyabroad.wisc.edu>).

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the Center for South Asia office ([info@southasia.wisc.edu](mailto:info@southasia.wisc.edu)) or the undergraduate advisor, Csanád Siklós, 262-5006; [siklos@wisc.edu](mailto:siklos@wisc.edu).

## REQUIREMENTS

### 21 CREDITS, DISTRIBUTED AS FOLLOWS:

#### Introductory course

Code	Title	Credits
<b>One course from:</b>		<b>3</b>
HISTORY 142	History of South Asia to the Present	
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	
LCA 100	Introduction to Cultures of Asia	
LCA/GEOG/ HISTORY/ POLI SCI/ SOC 252	The Civilizations of India-Modern Period	
LCA/ RELIG ST 274	Religion in South Asia	
LCA/ RELIG ST 357	Literatures of Muslim Societies	
LITTRANS 211	Modern Indian Literatures in Translation	

#### Area courses

Code	Title	Credits
<b>Nine credits from:</b>		<b>9</b>
ANTHRO 100	General Anthropology	
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 310	Topics in Archaeology	
ANTHRO/LCA 462	Anthropology of South Asia	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 411	Topics in Asian Art	
ART HIST/ LCA 428	Visual Cultures of South Asia	
ART HIST/ LCA 379	Cities of Asia	
ART HIST 500	Proseminar: Special Topics in Art History	
ART HIST 515	Proseminar in Medieval Art	
ART HIST/ LCA 621	Mapping, Making, and Representing Colonial Spaces	

ASIAN AM 101	Introduction to Asian American Studies
ASIAN AM 240	Topics in Asian American Studies
ASIAN AM/ ENGL 270	A Survey of Asian American Literature
ASIAN AM 540	Special Topics
ASIAN AM 560	Humanities Topics
DS 642	Taste
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization
FOLKLORE/ LCA 374	Indian Folklore
FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature
GEN&WS 102	Gender, Women, and Society in Global Perspective
GEN&WS 310	Special Topics in Gender, Women and the Humanities
GEN&WS/ URB R PL 644	International Development and Gender
GEOG 510	Economic Geography
HISTORY 130	An Introduction to World History
HISTORY 200	Historical Studies
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)
HISTORY/ LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan
HISTORY 434	American Foreign Relations, 1901 to the Present
HISTORY/ LCA 450	Making of Modern South Asia
HISTORY 463	Topics in South Asian History
HISTORY 600	Advanced Seminar in History
INTL BUS 200	International Business
INTL BUS 365	Contemporary Topics
INTL BUS/ MARKETNG 420	Global Marketing Strategy
INTL ST 101	Introduction to International Studies
INTL ST 310	International Learning Community Seminar
INTL ST 320	Contemporary Issues in International Studies
JOURN 162	Mass Media in Multicultural America
LCA 236	Bascom Course
LCA 300	Topics in Languages and Cultures of Asia
LCA 314	Literatures of Central Asia
LCA/LITTRANS/ THEATRE 348	In Translation: Modern Indian Theatre
LCA/ RELIG ST 367	Jainism: Religion of Non-Violence
LCA/ RELIG ST 357	Literatures of Muslim Societies

LCA/ RELIG ST 355	Hinduism	LCA LANG 365	First Semester Tamil
LCA/POLI SCI 326	Politics of South Asia	LCA LANG 366	Second Semester Tamil
LCA 311	Modern Indian Literatures	LCA LANG 367	First Semester Telugu
LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	LCA LANG 368	Second Semester Telugu
LCA 373	Urdu Prose Fiction in India and Pakistan	LCA LANG 369	First Semester Modern Tibetan
LCA/ FOLKLORE 374	Indian Folklore	LCA LANG 370	Second Semester Modern Tibetan
LCA/ ART HIST 379	Cities of Asia	LCA LANG 371	First Semester Urdu
LCA/ RELIG ST 402	Thought of Gandhi	LCA LANG 372	Second Semester Urdu
LCA/ RELIG ST 421	A Survey of Tibetan Buddhism	LCA LANG 375	First Semester Sanskrit
LCA/ ART HIST 428	Visual Cultures of South Asia	LCA LANG 376	Second Semester Sanskrit
LCA/ HISTORY 450	Making of Modern South Asia	LCA LANG 401	Third Semester Asian Language
LCA/ANTHRO 462	Anthropology of South Asia	LCA LANG 402	Fourth Semester Asian Language
LCA/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	LCA LANG 433	Third Semester Pashto
LCA/ RELIG ST 626	Gods and Goddesses of South Asia	LCA LANG 434	Fourth Semester Pashto
LCA 630	Proseminar: Studies in Cultures of Asia	LCA LANG 435	Third Semester Punjabi
LCA/LEGAL ST/ RELIG ST 628	Hindu Law	LCA LANG 436	Fourth Semester Punjabi
LCA/ RELIG ST 624	Meditation in Indian Buddhism and Hinduism	LCA LANG 437	Third Semester Sinhala
LCA/ RELIG ST 623	Yoga: Methods and Goals	LCA LANG 438	Fourth Semester Sinhala
LCA/ RELIG ST 620	Proseminar: Studies in Religions of Asia	LCA LANG 449	Third Semester Bengali
LCA LANG 301	First Semester Asian Language	LCA LANG 450	Fourth Semester Bengali
LCA LANG 302	Second Semester Asian Language	LCA LANG 451	Third Semester Gujarati
LCA LANG 333	First Semester Pashto	LCA LANG 452	Fourth Semester Gujarati
LCA LANG 334	Second Semester Pashto	LCA LANG 453	Third Semester Hindi
LCA LANG 335	First Semester Punjabi	LCA LANG 454	Fourth Semester Hindi
LCA LANG 336	Second Semester Punjabi	LCA LANG 459	Third Semester Marathi
LCA LANG 337	First Semester Sinhala	LCA LANG 461	Third Semester Nepali
LCA LANG 338	Second Semester Sinhala	LCA LANG 462	Fourth Semester Nepali
LCA LANG 349	First Semester Bengali	LCA LANG 463	Third Semester Persian
LCA LANG 350	Second Semester Bengali	LCA LANG 464	Fourth Semester Persian
LCA LANG 351	First Semester Gujarati	LCA LANG 467	Third Semester Telugu
LCA LANG 352	Second Semester Gujarati	LCA LANG 468	Fourth Semester Telugu
LCA LANG 353	First Semester Hindi	LCA LANG 469	Third Semester Modern Tibetan
LCA LANG 354	Second Semester Hindi	LCA LANG 470	Fourth Semester Modern Tibetan
LCA LANG 359	First Semester Marathi	LCA LANG 471	Third Semester Urdu
LCA LANG 360	Second Semester Marathi	LCA LANG 472	Fourth Semester Urdu
LCA LANG 361	First Semester Nepali	LCA LANG 475	Third Semester Sanskrit
LCA LANG 362	Second Semester Nepali	LCA LANG 476	Fourth Semester Sanskrit
LCA LANG 363	First Semester Persian	LCA LANG 553	Fifth Semester Hindi
LCA LANG 364	Second Semester Persian	LCA LANG 554	Sixth Semester Hindi
		LCA LANG 557	Fifth Semester Tibetan
		LCA LANG 558	Sixth Semester Tibetan
		LCA LANG 571	Fifth Semester Urdu
		LCA LANG 572	Sixth Semester Urdu
		LCA LANG 601	Seventh Semester Asian Language
		LCA LANG 602	Eighth Semester Asian Language
		LCA LANG 648	Advanced Readings in Pali Literature
		LCA LANG 653	Advanced Readings in Hindi Language
		LCA LANG 654	Advanced Readings in Hindi Literature
		LCA LANG 671	Advanced Readings in Urdu Language



LCA LANG 675	Advanced Readings in Sanskrit	
LCA LANG 677	Advanced Readings in Tibetan	
Total Credits		9

### Disciplinary courses

Code	Title	Credits
<b>Six credits from:</b> 6		
ANTHRO 310	Topics in Archaeology	
ART HIST 411	Topics in Asian Art	
ENGL/LCA 478	Indian Writers Abroad: Literature, Diaspora and Globalization	
FOLKLORE/ LCA 374	Indian Folklore	
HISTORY/ LCA 450	Making of Modern South Asia	
INTL BUS 200	International Business	
LCA/ RELIG ST 274	Religion in South Asia	
LCA 311	Modern Indian Literatures	
LCA/POLI SCI 326	Politics of South Asia	
LCA/ RELIG ST 355	Hinduism	
LCA/ RELIG ST 357	Literatures of Muslim Societies	
LCA/ RELIG ST 367	Jainism: Religion of Non-Violence	
LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	
LCA 373	Urdu Prose Fiction in India and Pakistan	
LCA/ FOLKLORE 374	Indian Folklore	
LCA/ RELIG ST 402	Thought of Gandhi	
LCA/ANTHRO/ LINGUIS 430	Language and Culture	
LCA/ANTHRO 462	Anthropology of South Asia	
LCA/RELIG ST/ SOC 614	Social Structures of Muslim Societies	
LCA/ RELIG ST 620	Proseminar: Studies in Religions of Asia	
LCA/ RELIG ST 623	Yoga: Methods and Goals	
LCA/ RELIG ST 626	Gods and Goddesses of South Asia	
LCA 630	Proseminar: Studies in Cultures of Asia	
POLI SCI/LCA 663	South Asia and the Global System: Economy, Security & Culture	
RELIG ST/ LCA 402	Thought of Gandhi	
RELIG ST/ LCA 421	A Survey of Tibetan Buddhism	
RELIG ST/ LCA 626	Gods and Goddesses of South Asia	

THEATRE 619	Special Topics in Theatre and Drama	
Total Credits		6

### Capstone

Code	Title	Credits
<b>Three credits from:</b> 3		
ANTHRO/LCA 462	Anthropology of South Asia	
ANTHRO 690	Problems in Anthropology	
COM ARTS 613	Special Topics in Film	
HISTORY 463	Topics in South Asian History	
LCA 600	Capstone Seminar in Asian Humanities	
LCA/RELIG ST/ SOC 614	Social Structures of Muslim Societies	
LCA/ RELIG ST 620	Proseminar: Studies in Religions of Asia	
LCA 630	Proseminar: Studies in Cultures of Asia	
LCA 666	Proseminar: Studies in Literatures of Asia	
LCA/RELIG ST/ SOC 634	Social Structure of India	
POLI SCI/LCA 663	South Asia and the Global System: Economy, Security & Culture	
LCA 699	Directed Study	

### RESIDENCE & QUALITY OF WORK

2.750 GPA on all certificate-approved courses

11 credits in the certificate, in residence

### LEARNING OUTCOMES

- Historical Grounding:** understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
- Multi-disciplinarity:** analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
- Depth of knowledge:** mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline

### ADVISING AND CAREERS

Advising for the certificate is administered by the Institute for Regional and International Studies (IRIS). The IRIS assistant director for students and curriculum can assist you in developing your plan of study for the certificate, track progress towards your certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin

career exploration early on and to make use of the many resources available on campus.

Contact the certificate advisor (Csanád Siklós, 262-5006; siklos@wisc.edu) to create a plan that includes a well-balanced selection of area studies and disciplinary courses and for approval of appropriate introductory and capstone seminar courses.

#### Resources:

- Make a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>)
- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- L&S Career Initiative (<http://ls.wisc.edu/about/lscip/careerinitiative.html>)

## PEOPLE

Center for South Asia Advisory Committee: Christine Garlough, Mark Kenoyer, Sundaram Gunasekaran, Stephen Young, Todd Michelson-Ambelang, Laura Hammond.

## SOUTHEAST ASIAN STUDIES, CERTIFICATE

Students interested in more specialized study of the languages and literature of East Asia, South Asia, or Southeast Asia should see the Department of Asian Languages and Cultures, the Center for East Asian Studies, or the Center for South Asia; those interested in the study of languages and cultures of Central Asia should see the Center for Russian, East European, and Central Asian Studies. All questions pertaining to Southeast Asian studies at UW–Madison, should be addressed to the Center for Southeast Asian Studies (see box at right).

## CERTIFICATE IN SOUTHEAST ASIAN STUDIES

The undergraduate certificate in Southeast Asian studies is available to students working toward a baccalaureate degree in any of the University of Wisconsin–Madison schools and colleges. This certificate meets the needs of students choosing to focus on the Southeast Asia region (Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar/Burma, Philippines, Singapore, Thailand, Vietnam) within their primary major, but not wishing to commit to the more rigorous language and area studies courses required for the B.A. in Asian Languages and Cultures (named option in Southeast Asia). Students select coursework reflecting their interests from classes offered through many university departments, and can work toward a variety of undergraduate majors. Upon earning the certificate, this emphasis is noted on the student's transcript. The certificate is of value to students wishing to demonstrate their knowledge of the Southeast Asian region either to potential employers or to graduate schools.

## HOW TO GET IN

Students interested in declaring the certificate in Southeast Asian studies should contact the program adviser Michael Cullinane, [mmcullin@wisc.edu](mailto:mmcullin@wisc.edu), 608-263-1755.

## REQUIREMENTS

### 15 CREDITS

Code	Title	Credits
<b>Up to 6 credits of Language may count:</b>		0-6
LCA LANG 403	Third Semester Burmese	
LCA LANG 404	Fourth Semester Burmese	
LCA LANG 405	Third Semester Filipino	
LCA LANG 406	Fourth Semester Filipino	
LCA LANG 407	Third Semester Hmong	
LCA LANG 408	Fourth Semester Hmong	
LCA LANG 409	Third Semester Indonesian	
LCA LANG 410	Fourth Semester Indonesian	
LCA LANG 411	Third Semester Javanese	
LCA LANG 412	Fourth Semester Javanese	
LCA LANG 413	Third Semester Khmer	
LCA LANG 414	Fourth Semester Khmer	
LCA LANG 415	Third Semester Lao	
LCA LANG 416	Fourth Semester Lao	
LCA LANG 417	Third Semester Thai	
LCA LANG 418	Fourth Semester Thai	
LCA LANG 419	Third Semester Vietnamese	
LCA LANG 420	Fourth Semester Vietnamese	
LCA LANG 503	Fifth Semester Burmese	
LCA LANG 504	Sixth Semester Burmese	
LCA LANG 505	Fifth Semester Filipino	
LCA LANG 506	Sixth Semester Filipino	
LCA LANG 507	Fifth Semester Hmong	
LCA LANG 508	Sixth Semester Hmong	
LCA LANG 509	Fifth Semester Indonesian	
LCA LANG 510	Sixth Semester Indonesian	
LCA LANG 513	Fifth Semester Khmer	
LCA LANG 514	Sixth Semester Khmer	
LCA LANG 515	Fifth Semester Lao	
LCA LANG 516	Sixth Semester Lao	
LCA LANG 517	Fifth Semester Thai	
LCA LANG 518	Sixth Semester Thai	
LCA LANG 519	Fifth Semester Vietnamese	
LCA LANG 520	Sixth Semester Vietnamese	
<b>Core courses:</b>		9-15
A A E/ INTL ST 373	Globalization, Poverty and Development	
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	
ECON/A A E 473	Economic Growth and Development in Southeast Asia	

FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World
FOLKLORE/ THEATRE 326	Introduction to Asian Performance
FOLKLORE/ MUSIC 402	Musical Cultures of the World
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 358	Human Geography of Southeast Asia
HISTORY/ ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War
HISTORY 319	The Vietnam Wars
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History
HISTORY/ LCA 457	History of Southeast Asia to 1800
HISTORY/ LCA 458	History of Southeast Asia Since 1800
INTL BUS 200	International Business
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500
LCA 401	Modern Indonesian Literature
LCA 441	Language and Society in Southeast Asia
LCA 671	Structure of Thai
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World
MUSIC 361	Non-Western Music Performance-Study Groups
MUSIC/ FOLKLORE 402	Musical Cultures of the World
RELIG ST/ AFRICAN/ LCA 370	Islam: Religion and Culture

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

8 credits in the certificate, in residence

## ADVISING AND CAREERS

All students interested in this certificate are encouraged to take HISTORY/GEOG/LCA/POLI SCI/SOC 244 Introduction to Southeast Asia: Vietnam to the Philippines.

Southeast Asian language courses can be taken during the academic year (Filipino, Hmong, Indonesian, Thai, and Vietnamese) and all of these plus three others (Burmese, Khmer, and Lao) can be taken at UW-Madison's summer program, the Southeast Asian Studies Summer Institute (<http://seassi.wisc.edu>).

Students interested in the certificate in Southeast Asian Studies, should contact the program adviser Michael Cullinane, [mmcullin@wisc.edu](mailto:mmcullin@wisc.edu), 608-263-1755.

## INTEGRATED LIBERAL STUDIES

Integrated Liberal Studies (ILS) is an interdisciplinary program offering courses devoted to Western history, philosophy, politics, art, literature, and culture. As an alternative to scattered electives, ILS offers a set of related courses specially tailored to meet the breadth requirements of the College of Letters & Science. ILS draws exemplary, dynamic faculty from departments across campus to create courses that challenge students with a rigorous program of interdisciplinary study emphasizing critical thinking and judgment rather than passive absorption of information. Although these courses may be taken as single electives, the purpose of the program is to counter the fragmentation of undergraduate education by providing a common ground of learning.

Because ILS courses are interdisciplinary, students are encouraged to make connections between the various subject areas. They study the relations between literature and the arts; science, technology, and philosophy; and political, economic, and social thought. The content of the curriculum has been developed in the belief that historical perspective is required for a full understanding of contemporary issues. Courses numbered 201-208 progress from historical to contemporary topics, in each of the three breadth areas. Together, these courses provide a comprehensive introduction to the achievements of Western culture. Those numbered 251-372 cover interdisciplinary special topics in the natural sciences, social sciences, and humanities, from "Art and Political Activism" to "Vietnam: Music, Media, and Mayhem." ILS also includes a course (ILS 200 Critical Thinking and Expression) in Critical Thinking and Expression to sharpen communication and research skills necessary for college work. This course satisfies the university's Communications B requirement. ILS 400 Capstone Integration Seminar, a senior capstone seminar addressing an interdisciplinary topic, is required in order to complete the ILS certificate.

## BRADLEY LEARNING COMMUNITY

The ILS program is affiliated with the Bradley Learning Community (<http://www.housing.wisc.edu/bradley>), a residence hall. ILS faculty participate in activities and offer courses taught in the residence hall.

## DEGREES/MAJORS/CERTIFICATES

- Integrated Liberal Studies, Certificate (p. 884)

## PEOPLE

**AFFILIATED FACULTY:**

**Richard Avramenko, Chair (Political Science)**  
**William Aylward (Classics)**  
**Doug Bradley (ILS)**  
**Aaron Brower (Social Work)**  
**Florence Hsia (History of Science)**  
**David Kleinman (Rural Sociology)**  
**Jason Lopez (Comm Arts)**  
**Laura McClure (Classics)**  
**Cathy Middlecamp (Nelson Institute for Environmental Studies)**  
**Steve Nadler (Philosophy)**  
**Adam Nelson (Educational Policy Studies)**  
**Lynn Nyhart (History of Science)**  
**Zakir Paul (Political Science)**  
**Shawn Peters (The Center for Educational Opportunity - CeO)**  
**Patricia Rosenmeyer (Classics)**  
**Howard Schweber (Political Science)**  
**Kathi Sell (ILS)**  
**Basil Tikoff (Geoscience)**  
**Mike Vanden Heuvel (Theatre and Drama)**  
**Craig Werner (Afro-American Studies)**  
**John Zumbrunnen (Political Science)**

## INTEGRATED LIBERAL STUDIES, CERTIFICATE

Integrated Liberal Studies (ILS) (<http://www.wisc.edu/ils>) is an interdisciplinary program offering courses devoted to Western history, philosophy, politics, art, literature, and culture. As an alternative to scattered electives, ILS offers a set of related courses specially tailored to meet the breadth requirements of the College of Letters & Science. ILS draws exemplary, dynamic faculty from departments across campus to create courses that challenge students with a rigorous program of interdisciplinary study emphasizing critical thinking and judgment rather than passive absorption of information. Although these courses may be taken as single electives, the purpose of the program is to counter the fragmentation of undergraduate education by providing a common ground of learning.

Because ILS courses are interdisciplinary, students are encouraged to make connections between the various subject areas. They study the relations between literature and the arts; science, technology, and philosophy; and political, economic, and social thought. The content of the curriculum has been developed in the belief that historical perspective is required for a full understanding of contemporary issues. Courses numbered 201–206 progress from historical to contemporary topics, in each of the three breadth areas. Together, these courses provide a comprehensive introduction to the achievements of Western culture. Those numbered 251–372 cover interdisciplinary special topics in the natural sciences, social sciences, and humanities, from "Art and Political Activism" to "Vietnam: Music, Media, and Mayhem." ILS also includes a course (ILS 200 Critical Thinking and Expression) in critical thinking and expression to sharpen communication and research skills necessary for college work. This course satisfies the university's Communications B requirement. ILS 400 Capstone Integration Seminar, a senior capstone seminar addressing an interdisciplinary topic, is required in order to complete the ILS certificate.

### BRADLEY LEARNING COMMUNITY

The ILS program is affiliated with the Bradley Learning Community (<http://www.housing.wisc.edu/residencehalls-halls-bradley.htm>), a

residence hall. ILS faculty participate in activities and offer courses taught in the residence hall.

## HOW TO GET IN

ILS is open to all UW undergraduate students in any college. There are no requirements or prerequisites to declare the certificate.

Declaring an ILS certificate may be accomplished any time during the year and does not need to be added to UW–Madison admission forms. To declare an ILS certificate students can stop by the Meiklejohn House (228 North Chater Street) and talk to the advisor or administrator to fill out their declaration form. For more information, please see the program website (<http://ils.wisc.edu>) or send an email to [ils@ls.wisc.edu](mailto:ils@ls.wisc.edu).

## REQUIREMENTS

### 18 CREDITS FROM:

Code	Title	Credits
<b>at least 3 credits from:</b>		<b>3</b>
ILS/RELIG ST 234	Genres of Western Religious Writing	
ILS 251	Contemporary Physical Sciences	
ILS 252	Contemporary Life Sciences	
ILS 253	Literature and Society	
ILS 254	Literature and Science	
ILS 271	Pre-Copernican Astronomy and Cosmology in Crosscultural Perspective	
ILS 275	Special Topics in Integrated Liberal Studies	
ILS 298	Directed Study	
ILS 299	Directed Study	
ILS 338	Peer Mentoring for First-Year Liberal Education Seminar	
ILS 357	Peer Mentor Seminar	
ILS 371	Interdisciplinary Studies in the Arts and Humanities	
ILS 372	Interdisciplinary Studies in the Social Sciences	
ILS 401	Global Cultures Capstone Seminar	
ILS 490	Research in Integrated Liberal Studies	
ILS 681	Undergraduate Honors Thesis	
ILS 682	Undergraduate Honors Thesis	
ILS 691	Undergraduate Thesis	
ILS 692	Undergraduate Thesis	
<b>Capstone</b>		
ILS 400	Capstone Integration Seminar	<b>3</b>
<b>Additional credits:</b>		<b>12</b>
<i>Any ILS course from above or:</i> <sup>1</sup>		
ILS/ENVIR ST 126	Principles of Environmental Science	
ILS 138	CRC First-Year Seminar: Foundations of a Liberal Arts Education	

ILS/INTER-AG 150	Ways of Knowing
ILS 153	Ways of Knowing in the Sciences
ILS 157	Bradley Roundtable Seminar
ILS 170	Creativity and the Civic-Minded Culture
ILS 198	Directed Study
ILS 199	Directed Study
ILS 200	Critical Thinking and Expression
ILS 201	Western Culture: Science, Technology, Philosophy I
ILS 202	Western Culture: Science, Technology, Philosophy II
ILS 203	Western Culture: Literature and the Arts I
ILS 204	Western Culture: Literature and the Arts II
ILS 205	Western Culture: Political, Economic, and Social Thought I
ILS 206	Western Culture: Political, Economic, and Social Thought II
ILS 208	History of Western Culture II
ILS 209	Introduction to Global Cultures
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Up to 6 credits from Freshman Interest Group (FIG) courses may apply to the certificate. Consult the undergraduate advisor for more information about applying these courses to the program.

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

6 credits in the certificate, in residence

## LEARNING OUTCOMES

### LEARNING OUTCOMES

Integrated Liberal Studies is an interdisciplinary liberal education core curriculum and ever-changing set of special topics courses *focused on* Western history, philosophy, politics, art, literature, and culture. The aim of ILS is to provide an integrated understanding of the great themes of human inquiry and expression in scientific, political, economic, and social thought, as well as literature and the arts. The program is an excellent, more cohesive alternative to *completing breadth requirements* through unrelated and fragmented introductory courses. *ILS offers instead a coherent set of integrated courses that fulfill all breadth requirements, and combines core survey courses with smaller, seminar-style topics courses.* There are *minimal* prerequisites for *all* ILS courses and most courses are open to freshmen. ILS is something of a "*small liberal arts experience within a great University*," an academic home where you can meet friends with similar interests taking a common set of courses. ILS holds a variety of student activities and events to *sustain its community of learning*. Our close relationships with the Bradley Learning Community and Chadbourne Residential College also mean that you could make ILS part of a complete living-learning experience.

You can meet all of the Letters & Science distribution requirements for a BA degree through ILS. However, ILS is a flexible program: you can take as many ILS courses as you like. Some students make ILS the core of their first two years of study; others take ILS courses alongside their major throughout their undergraduate studies. The "first tier" courses (numbered 201-206) are organized historically and together offer a comprehensive view of the achievements of the mind in science, social thought, and the humanities. The "second tier" courses (numbered 251-372) deal with contemporary issues in science, social science, and the humanities. In addition to these classes, ILS also offers its own writing course, Critical Thinking and Expression (ILS 200), which sharpens analysis and composition skills.

Students can receive a certificate showing that they have completed an integrated liberal education program that becomes part of their transcript. ILS also offers several scholarships of various amounts to dedicated students within the program.

## THE ILS CERTIFICATE

Integrated Liberal Studies is a certificate program. Students must complete 18 credits of ILS courses (approximately six total classes), including 6 credits in courses numbered 230 and above, one of which must be the capstone seminar (ILS 400). Upon satisfying these requirements, students will receive a certificate of completion: their transcripts will note they completed a program of interdisciplinary liberal studies in addition to their major(s). If you would like to work toward the ILS certificate, please stop by the ILS office in the Meiklejohn House, located at 228 N. Charter Street, and fill out the certificate declaration. Filling out the declaration does not obligate you to complete the certificate, but it does ensure notation on your transcript when you complete the requirements. Click here ([http://ils.wisc.edu/documents/ils\\_declaration\\_sheet.pdf](http://ils.wisc.edu/documents/ils_declaration_sheet.pdf)) to view the declaration form.

## ADVISING AND CAREERS

### ADVISOR CONTACT

Richard Avramenko, ILS Chair

[ils@ls.wisc.edu](mailto:ils@ls.wisc.edu)

608-262-2190

### CAREER INFORMATION

The Integrated Liberal Studies Program encourages certificate students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### AFFILIATED FACULTY

Richard Avramenko, Chair (Political Science)

William Aylward (Classics)

Doug Bradley (ILS)

Aaron Brower (Social Work)

Florence Hsia (History of Science)

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Shawn Peters (The Center for Educational Opportunity—CeO)

Patricia Rosenmeyer (Classics)

Howard Schweber (Political Science)

Kathi Sell (ILS)

Basil Tikoff (Geoscience)

Mike Vanden Heuvel (Theatre and Drama)

Craig Werner (Afro-American Studies)

John Zumbrunnen (Political Science)

## WISCONSIN EXPERIENCE

### "A SMALL LIBERAL ARTS COLLEGE WITHIN A GREAT UNIVERSITY"

**ILS IS NOT ONLY A CERTIFICATE, BUT A COMMUNITY ON CAMPUS. THE PROGRAM STRIVES TO CREATE A PLACE WHERE STUDENTS CAN TAKE MULTIPLE CLASSES WITH THE SAME GROUP OF PEERS AND DEVELOP LASTING RELATIONSHIPS. IT'S LIKE A FIG (FIRST-YEAR INTEREST GROUP) THROUGHOUT THE ENTIRE UNDERGRADUATE EXPERIENCE.**

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"The University of Wisconsin needs programs like ILS to give students the indispensable liberal arts experience and I am happy that it was part of my experience here on campus." Brett Tietz (2015 ILS graduate)

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"I love that the history and literature I learn in my ILS courses makes me a better conversationalist." Paul Sutherland (2015 ILS graduate)

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"I love ILS because there is so much to learn. Through ILS I was able to trace the history of science from natural philosophy all the way up to Newtonian physics, and the impact of science on the contemporary art & literature. I really enjoyed being able to study the humanities, and the insights these classes have provided me on the interaction between science and culture. The program was a great way for me to study things that I am interested in, but are unrelated to my major, such as astronomy, geology, philosophy, literature, art history, geopolitics." Brad Glasco (2015 ILS graduate)

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"The main goal of ILS is to get its students to recognize how different subjects of knowledge connect with one another. Our student-led class in our ILS capstone attempted to accomplish this goal through the topic of tattoos. By reading articles and books on tattoos, witnessing a classmate receive a tattoo, interviewing veteran tattoo artists in the field, debating case studies, and discussing stigmas and stereotypes of tattoos, we wove together knowledge from history, psychology, sociology, criminology, philosophy, and art. My views about tattoos, and people who choose to get them, will be forever better informed. I will always remember my classmates and this capstone!" Ryan Fleming (2015 ILS graduate)

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"Virtually every ILS class threatens to fundamentally change the way you see the world." Eric Schmidt, political science major

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"Some of the best professors on campus teach ILS classes, and they love the program as much as the students! How many other programs offer Aristophanes, Nietzsche and Jon Stewart in the same class?" Jeff Landow, English major

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## RESOURCES AND SCHOLARSHIPS

### MEIKLEJOHN TRAVEL AWARD

#### UP TO \$1500

Named for Alexander Meiklejohn, founder of the University of Wisconsin Experimental College (1927–32), the forerunner to the ILS program, this prize is intended to help support an ILS student in a university-sponsored or an independent program of education-centered travel or study abroad, taking place during the summer or academic year (or in the United States if the destination is remote from the student's home or the campus).

#### Eligibility:

- Enrolled in the ILS certificate program.
- "Consideration is given to the student's need, extra-curricular activities and academic standing."
- Must be a full-time undergraduate student.

#### Submit:

- A two-page, double-spaced typewritten statement of your project, outlining your interests, goals, and itinerary.
- You should provide evidence that the travel proposal has been reviewed and endorsed by an appropriate faculty member.
- The travel should take place during the summer or academic year immediately following the award; in your application, please specify.
- This project may be directed by a faculty member for directed study credit, be part of a study abroad course for credit or noncredit, or be a noncredit self-directed trip. Indicate in your submission which of these options you will be using.
- The grantee will submit a report on the project upon returning and present an ILS Travelogue at an ILS student event in the fall semester

### POOLEY PRIZE

#### UP TO \$2,000 EACH (BASED ON AVAILABLE FUNDS)

Named for Professor Robert Pooley, the first chair of the Integrated Liberal Studies program (1948), this prize is:

- given annually to one outstanding male ILS student and one outstanding female ILS student
- on the basis of academic achievement (GPA of at least 3.0 for the 3 preceding semesters),
- evidence of good character,
- student leadership in the ILS program, including involvement in extracurricular activities, and
- available for travel purposes relating to their ILS courses.

*Eligibility:* Open to all students who have either completed or are about to complete the ILS certificate program this year.

#### Submit:

- A double-spaced typewritten essay on your educational philosophy and goals (at least one page must be devoted to a narrative of your transcripts). The transcript narrative should tell why you took the elective courses you did, what you learned, what you liked or disliked, expectations met or exceeded, hopes realized, disappointments, and so on. Also discuss your participation in the life of the ILS program.

- Two reference letters from faculty in ILS providing evidence of your participation in and contributions to the life of the ILS program, your scholarship, and your character.

### RUTH KNATZ AWARD

#### UP TO \$5,000 (BASED ON AVAILABLE FUNDS)

Named for Ruth Knatz Gross Wisnewsy and given by her husband, Edward Wisnewsy, this prize will be given only to a truly outstanding student who:

- is majoring in at least one humanities discipline (including history and history of science, but not social science or science); this means you may be double-majoring in one non-humanities major, but the other must be a humanities major
- gives promise of making a valuable contribution to the humanities
- has done exemplary work in 15 ILS credits (6 credits above 250)
- has achieved junior or senior standing,
- will be travelling with the purpose of strengthening their ILS course and academic purpose, and
- has signed up for the certificate and plans to complete the ILS certificate program.

#### Submit:

- Three letters of recommendation, two from ILS faculty and one from faculty in your major, addressing your current contributions to the humanities and your potential for future contributions
- A brief (4–5 pages, double-spaced) essay on why you love the humanities; how the study of the humanities has changed your life; and how you hope to share what you've discovered with others.

The winner will present a talk in a symposium at ILS titled "The Promise of the Humanities."

## LEGAL STUDIES

The Legal Studies Program offers an undergraduate major in the College of Letters & Science. The program mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation of law and legal institutions. Courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around five themes, each of which is associated with a group of courses, and each of which incorporates comparative and historical approaches.

### THEME GROUP 1: LEGAL INSTITUTIONS

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout

the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

## THEME GROUP 2: PROCESSES OF LEGAL ORDER AND DISORDER

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order."

This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

## THEME GROUP 3: LAW AND SOCIAL FORCES

This theme group explores the intersection between law, social structures and social movements. Courses in this group address social inequality, generally in the U.S. context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

## THEME GROUP 4: LAW AND CULTURE

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

## THEME GROUP 5: LAW AND THEORY

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost literally all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many if not most theorists explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

- Legal Studies, B.A. (p. 890)
- Legal Studies, B.S. (p. 895)

## CRIMINAL JUSTICE, CERTIFICATE

The Criminal Justice Certificate Program includes an interdisciplinary sequence of classes and an internship, for students interested in the American criminal and juvenile justice systems. Certificate students select courses from the Legal Studies Program and the departments of Sociology, Political Science, Social Work, Psychology, Gender and Women's Studies, Anthropology, History, Human Development and Family Studies, Rehabilitation Psychology, Integrated Liberal Studies, and Counseling Psychology. Students gain a broad understanding of the philosophy, theories, and operation of the adult and juvenile justice systems.

### HOW TO GET IN

Any undergraduate regardless of major or college affiliation may earn a certificate. Students interested in earning a certificate in criminal justice must declare the certificate with the criminal justice advisor. Students are encouraged to declare the certificate as early as possible within their college careers. Field work/internship seminar courses require prerequisite courses and availability may be limited. The internship courses are in high demand and enrollment may be determined by the date of declaration in the certificate program.

### REQUIREMENTS

To earn a criminal justice certificate, a student must complete all requirements for a bachelor's degree, requirements of the declared major(s), and graduate from UW–Madison. In addition, students must take all required certificate courses for a letter grade versus pass/fail. It is not necessary to take classes in any particular sequence; however, individual courses may have prerequisites.

## REQUIREMENTS FOR STUDENTS ENROLLED IN THE CERTIFICATE PROGRAM

The certificate requires a minimum of seven courses and 21 credits. The courses must be distributed as follows:

Code	Title	Credits
Select one course from each of the six defined Groups		
Select one additional course from Group 3 or Group 4		

### GROUP 1—CRIMINAL JUSTICE SYSTEM

Code	Title	Credits
LEGAL ST/SOC 131	Criminal Justice in America	3-4

### GROUP 2—THEORIES OF CRIME AND DEVIANT BEHAVIOR

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4

## DEGREES/MAJORS/CERTIFICATES

- Criminal Justice, Certificate (p. 888)



PSYCH 601	Current Topics in Psychology (Psychology of Juvenile Delinquency (psychology majors only)) <sup>1</sup>	3
PSYCH 601	Current Topics in Psychology (Psychopathy and Other Syndromes of Disinhibition (psychology majors only)) <sup>1</sup>	3
PSYCH 501	Depth Topic (Child Psychopathology)	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
or PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	
SOC WORK 643	Social Work and Delinquency	2-3
SOC WORK 664	Topics in Contemporary Social Welfare (Delinquent) <sup>1</sup>	2-3

<sup>1</sup> Topics course. Credit granted only for topics listed.

### GROUP 3—CRIME AND JUSTICE/OPERATIONS OF THE JUSTICE SYSTEM

Code	Title	Credits
HISTORY/LEGAL ST 426	The History of Punishment	3-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Civil Rights) <sup>1</sup>	3-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Gender, Crime & Justice) <sup>1</sup>	3-4
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
POLI SCI 314	Criminal Law and Justice	3-4
PSYCH 311	Issues in Psychology (Psychology, Law, and Social Policies)	1-4
PSYCH 601	Current Topics in Psychology (Legal Psychology Criminal and Civil Issues (psych majors only)) <sup>1</sup>	3

<sup>1</sup> Topics course. Credit granted only for topics listed.

### GROUP 4—BROADER PSYCHO/SOCIO/ECONOMIC PROCESSES RELATED TO CRIMINAL JUSTICE

Code	Title	Credits
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
ANTHRO 448	Anthropology of Law	3
BOTANY 575	Special Topics (Forensic Botany)	1-3
HISTORY/LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HDFS 474	Racial Ethnic Families in the U.S.	3
ILS 275	Special Topics in Integrated Liberal Studies (Justice and Equity in America) <sup>1</sup>	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Race and Law) <sup>1</sup>	3-4
LEGAL ST 409	Human Rights in Law and Society	3

LEGAL ST/GEN&WS 422	Women and the Law	3
LEGAL ST 444	Law in Action	3
LEGAL ST/SOC 641	Sociology of Law	3-4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH 512	Behavior Pathology-Psychoses	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC 620	Comparative Racial Inequality	3
SOC 633	Social Stratification	3
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK 453	Alcohol and Other Drug Abuse	2-4
SOC WORK 462	Child Welfare	3
SOC WORK 523	Family Violence	3
SOC WORK 646	Child Abuse and Neglect	2-3
SOC WORK 674	Topics in Contemporary Social Welfare	2-3

<sup>1</sup> Topics course. Credit granted only for topics listed.

### GROUP 5—ETHNOGRAPHY—INTERNSHIP PREP

Code	Title	Credits
COUN PSY 650	Theory and Practice in Interviewing	3
LEGAL ST 405	Foundations of Field Education	2
SOC WORK 441	Generalist Practice with Individuals, Families and Groups (social work majors only)	1-3

### GROUP 6—FIELDWORK/INTERNSHIP SEMINAR

Code	Title	Credits
LEGAL ST/SOC 694 & SOC WORK 663	Criminal Justice Field Observation and Topics in Contemporary Social Welfare <sup>1</sup>	4-6
GEN&WS 660	Internship in Gender and Women's Studies (GWS major and certificate students only) <sup>2</sup>	6
HDFS 601	Internship (HDFS majors only) <sup>2</sup>	1-8
POLI SCI 315	Legislative Internship <sup>2</sup>	3
POLI SCI 402	Wisconsin in Washington Internship Course <sup>2</sup>	4
PSYCH 412	Field Experience in Psychology (psychology majors only) <sup>2</sup>	3
RP & SE 630	Internship in Rehabilitation or Special Education (RP&Ed majors only) <sup>2</sup>	2-6
SOC WORK 400 & SOC WORK 401	Field Practice and Integrative Seminar I and Field Practice and Integrative Seminar II (social work majors only) <sup>2</sup>	4-12

<sup>1</sup> Summer—30 hrs/wk for 10 weeks; prereqs: Groups 1, 2, 3 & LEGAL ST 405 Foundations of Field Education, and 86 credits by the beginning of the summer.

Spring—12 hrs/wk for 15 weeks; prereqs: Group 1 complete, Groups 2, 3, & COUN PSY 650 Theory and Practice in Interviewing complete or in progress by the beginning of the internship semester.

- <sup>2</sup> Must be a criminal/juvenile-justice-oriented internship; student must receive approval of placement from a criminal justice advisor before enrolling in the course.

## RESIDENCE AND QUALITY OF WORK

11 credits counting for the certificate, taken in residence

A cumulative 2.000 GPA in all courses counting for the certificate

## ADVISING AND CAREERS

### ADVISING

#### ADVISING APPOINTMENTS

**Carolyn Lesch, Room 8139, Sewell Social Sciences Building**

Carolyn's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/chDDRtWb.html>)

**Martine Delannay, Room 8137, Sewell Social Sciences Building**

Martine's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/rqGGzIBy.html>)

#### ADVISOR EMAIL

[cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu)

Current and future UW students with a Net ID use the links above to make an appointment. All others may send an email request to [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu).

### CAREERS

CJCP graduates have secured jobs in police departments, district attorneys' offices, public defenders' offices, juvenile group homes, adult halfway houses, public schools, and prisons. They have been involved in restitution programs, deferred prosecution alternatives, victim-witness projects, and home detention/electronic monitoring experiments. The options are numerous and interesting. Many CJCP students pursue a degree in law or attend graduate school in a related field.

Letters & Science Career Services (<http://careers.ls.wisc.edu>) provides students with a wide range of career-related services.

## WISCONSIN EXPERIENCE

All students complete an intensive internship with an agency or organization related to the criminal and juvenile justice fields. Involvement in the CJCP provides a solid educational foundation in criminal justice. It introduces students to basic concepts about our justice system and the individuals it serves. It encourages exploration of critical issues facing the system today and fosters investigation into realistic solutions.

## LEGAL STUDIES, B.A.

The Legal Studies Program is an undergraduate major in the College of Letters & Science. The program's mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation

of law and legal institutions. The courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around the following five themes: Legal Institutions, Processes of Legal Order and Disorder, Law and Social Forces, Law and Culture, and Law and Theory.

#### Theme Group 1: Legal Institutions

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

#### Theme Group 2: Processes of Legal Order and Disorder

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order." This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

#### Theme Group 3: Law and Social Forces

This theme group explores the intersection between law, social structures and social movements. Courses in this group address social inequality, generally in the U.S. context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

#### Theme Group 4: Law and Culture

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

#### Theme Group 5: Law and Theory

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to

other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost literally all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many if not most theorists explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

## HOW TO GET IN

### PREREQUISITES FOR THE MAJOR

Those wishing to declare the major should schedule an appointment with the legal studies advisor.

To declare the legal studies major, students must complete three (3) prerequisite courses with grades of C or better. Students may be exempt from COMM-A by their English Placement score and from QR-A by their Math Placement score.

The three prerequisite courses consist of:

- a Communication A course;
- a Quantitative Reasoning A course; and
- one "Gateway Course" chosen from the list below.

### GATEWAY COURSES

Code	Title	Credits
Select one of the following: 3-4		
LEGAL ST/SOC 131	Criminal Justice in America	
LEGAL ST/POLI SCI 217	Law, Politics and Society	

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

In addition to the Gateway Courses, at least 11 courses are required to complete the legal studies major.

Code	Title	Credits
Select two courses from those listed in the Legal Institutions Theme Group		
Select four courses distributed across at least three of the following Theme Groups:		
	Processes of Legal Order & Disorder	
	Law and Social Forces	
	Law and Culture	
	Law and Theory	
Select one of the following methods courses in research and design:		
POLI SCI 170	Research Methods in Political Science	3
POLI SCI/JOURN/ URB R PL 373	Introduction to Survey Research	3
PSYCH 225	Research Methods	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
Select one of the following methods courses in statistics:		
ECON 310	Statistics: Measurement in Economics	4
GEN BUS 303	Business Statistics	3
POLI SCI 374	Introduction to Statistical Inference for Political Research	3-4
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
Select one of the following Core Perspectives courses: <sup>1</sup>		
LEGAL ST/HISTORY 261	American Legal History to 1860	3
LEGAL ST/HISTORY 262	American Legal History, 1860 to the Present	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (*Civil Rights *Amer Juvenile Just *Surveillance *Privacy & Pol *Race and the Law)	3-4
LEGAL ST/HISTORY 426	The History of Punishment	3-4

LEGAL ST 450	Topics in Legal Studies and the Humanities (*Jurisprudence *Medieval Law and Society *Medico-Legal History)	3-4
LEGAL ST/LCA/ RELIG ST 628	Hindu Law	3
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST/HISTORY 510	Legal Pluralism	3
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
LEGAL ST/SOC 641	Sociology of Law	3-4
Select one of the following:		
A Senior Thesis (6 credits) <sup>2</sup>		
Two additional courses from the five Theme Groups		

### Footnotes

- <sup>1</sup> All legal studies majors are required to take one Core Perspectives course. The following courses count as Core Perspectives courses if they are taught by core legal studies faculty; if any of these courses is taught by non–legal studies faculty, the determination of whether they will count for Core Perspectives credit will be made prior to the beginning of the semester in which the course is offered. Each of these courses is intended to provide a broad and intellectually flexible perspective that can serve as a framework for gaining a deeper understanding of the material taught in other courses in the program. The Core Perspectives courses do not necessarily overlap; the criterion for inclusion of courses in the list below is that each explores its substantive content area through a range of social, scientific and humanistic approaches.
- <sup>2</sup> Students pursuing the senior thesis option must, in their senior year, arrange to register for 6 credits of 691/692 Senior Thesis, or 681/682 Senior Honors Thesis, in consecutive semesters for 3 credits each semester. Students are responsible for contacting a faculty member whom they would like to act as the senior thesis advisor; the major advisor can assist students in the process of selecting a senior thesis faculty advisor. Students must have the approval of the senior thesis faculty advisor before enrollment because the student will enroll for thesis credits in the department of the senior thesis faculty advisor. A student will not be able to enroll for thesis credits until after meeting with that faculty advisor. Students who plan to attend law school or graduate school and who maintain an overall grade point average of 3.0 or better at the beginning of the senior year (86 credits) are strongly urged to select the senior thesis option. The purpose of the senior thesis is to allow students to focus their interests and develop knowledge in one area of the field. Students may choose any legal studies topic for the senior thesis. The project involves using the library to review existing research and conducting original research designed by the student under the supervision of a faculty advisor. Early planning is best. Students contemplating the senior thesis option should schedule a legal studies advising appointment at least one semester before enrolling in senior thesis credits. A copy of the senior thesis paper, approved by the faculty advisor, must be submitted to the major advisor upon completion of the project.

## IMPORTANT CONSIDERATIONS

No more than four (4) courses from a single department or program will count toward the legal studies major; this restriction does not apply to courses listed in or cross listed with legal studies.

Courses may appear in more than one Theme Group and/or Core Perspective but each course will only satisfy one requirement. Courses will not be double counted.

At least two courses in the major must have substantial content dealing with countries or cultures other than the United States. "A"<sup>1</sup> in the list of courses below designates courses meeting this requirement.

## COURSES THAT SATISFY THE REQUIREMENTS TO COMPLETE THE MAJOR

### Theme Group 1: Legal Institutions

Code	Title	Credits
Theme Group 1: Legal Institutions		
GEN BUS 301	Business Law	3
ELPA 502	Workshop in Educational Leadership and Policy Analysis (*Law and Public Educ)	1-3
LEGAL ST/ HISTORY 261	American Legal History to 1860	3
LEGAL ST/ HISTORY 262	American Legal History, 1860 to the Present	3
LEGAL ST 450	Topics in Legal Studies and the Humanities	3-4
LEGAL ST 444	Law in Action	3
LEGAL ST/SOC 415	The Legal Profession	3-4
LEGAL ST 409	Human Rights in Law and Society <sup>1</sup>	3
LEGAL ST/LAW/ SOC 641	Sociology of Law	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 601	Proseminar: Topics in Political Science	3

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

### Theme Group 2: Process of Legal Order and Disorder

Code	Title	Credits
Theme Group 2: Process of Legal Order and Disorder		
COM ARTS 371	Communication and Conflict Resolution	3
COM ARTS 671	Communication and Social Conflict	3
ENVIR ST/ M&ENVTX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
INTL ST 601	Topics in Global Security (International Criminal Justice: Models & Practice)	1-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST 405	Foundations of Field Education	2
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST/SOC 694	Criminal Justice Field Observation	2-3
POLI SCI 314	Criminal Law and Justice	3-4
PSYCH 601	Current Topics in Psychology	3
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
R M I 615	Liability Risk Management	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4

### Theme Group 3: Law and Social Forces

Code	Title	Credits
Theme Group 3: Law and Social Forces		
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3
AFROAMER 671	Selected Topics in Afro-American History (*Crim Blkns; Race & Inprison)	3
AFROAMER 673	Selected Topics in Afro-American Society (*Race and Policing )	3
AMER IND 450	Issues in American Indian Studies (*Indigenous Rights *Nat Resources)	3
ECON 522	Law and Economics	3-4
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (Climate Change Governance)	1-4
HISTORY 408	American Labor History: 1900-Present	3-4
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 424	Women's International Human Rights	3
GEOG/ENVIR ST 439	US Environmental Policy and Regulation	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3

HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/ ENVIR ST 430	Law and Environment: Rights and Resources	3
LEGAL ST/SOC 641	Sociology of Law	3-4
LEGAL ST/L I S 645	Intellectual Freedom	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3
LEGAL ST/GEN&WS 422	Women and the Law	3
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
PSYCH 311	Issues in Psychology (*Psychology of Law)	1-4
PSYCH 601	Current Topics in Psychology	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC 496	Topics in Sociology (*Gender, Crime and Justice )	1-3

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

#### Theme Group 4: Law and Culture

Code	Title	Credits
Theme Group 4: Law and Culture		
ANTHRO 350	Political Anthropology <sup>1</sup>	3-4
ANTHRO 448	Anthropology of Law <sup>1</sup>	3
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (*Law & Lit *Prison & the dream of freed)	3
COMP LIT 350	Problems in Comparative Literatures and Cultures (*Literature and Prison *Literature & Prison)	3-4
COMP LIT 500	The Comparative In and Beyond Comparative Literature (*Guilt)	3
ENGL 142	Mystery and Crime Fiction	3
HISTORY 201	The Historian's Craft (*Shanghai Life)	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
ILS 371	Interdisciplinary Studies in the Arts and Humanities (*Books by Crooks)	3
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts <sup>1</sup>	3
LEGAL ST 450	Topics in Legal Studies and the Humanities (*Law and Film *Medico-Legal)	3-4
LEGAL ST/LCA/ RELIG ST 628	Hindu Law <sup>1</sup>	3
LEGAL ST/ HISTORY 502	Law and Colonialism <sup>1</sup>	3
LEGAL ST/ HISTORY 510	Legal Pluralism <sup>1</sup>	3
LITTRANS 236	Bascom Course-In Translation (*Extreme Stories )	3

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

#### Theme Group 5: Law and Theory

Code	Title	Credits
Theme Group 5: Law and Theory		
LEGAL ST/HISTORY 426	The History of Punishment <sup>1</sup>	3-4
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models <sup>1</sup>	3-4
JOURN 675	Topics in Government and Mass Media	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS 559	Philosophy of Law	3
PHILOS/MED HIST/ AGRONOMY/C&E SOC 565	The Ethics of Modern Biotechnology	3-4

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LEGAL ST and major courses

2.000 GPA on 15 upper-level major credits, taken in residence: LEGAL ST and major courses that are designated at intermediate or advanced level count as upper level.

15 credits in LEGAL ST and courses for the major, taken on campus

### HONORS IN THE MAJOR

Students may apply for admission to Honors in the Legal Studies Major in consultation with the Legal Studies undergraduate advisor(s).

### HONORS IN THE LEGAL STUDIES MAJOR ENTRANCE REQUIREMENTS

- Declaration of the legal studies major
- A 3.300 overall university GPA
- A 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Completion of or current enrollment in, for Honors credit, at least one course accepted in the major

### HONORS IN THE LEGAL STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Legal Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Complete the research design and statistics requirements for the regular major prior to enrollment in the Senior Honors Thesis (typically junior year)
- Complete 15 credits in the major, taken for Honors, earning a B or better grade in each course

- Complete a two-semester Senior Honors thesis in LEGAL ST 681 Senior Honors Thesis and LEGAL ST 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> The equivalent course in the advisor's home department may be acceptable; please see the legal studies undergraduate advisor(s) for details.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Introduce students to the social, political, economic, and cultural determinants of law.
2. Introduce students to the social, political, and economic impacts of law at the macro level.
3. Introduce students to the impact of law and other rules on individual level decision-making at the micro level.
4. Introduce students to the dynamics of legal ideas and ideologies.
5. Introduce students to the practical skills needed to analyze legal phenomena and to access legal resources, broadly defined.
6. Introduce students to the nature of legal reasoning and analysis in common law, civil law, and other legal systems.
7. Introduce students to the functioning of legal institutions, and how those institutions differ from other societal institutions.
8. Introduce students to the place and relevance of law within the humanities and social sciences.
9. Introduce students to the cross-cultural and international valences of law in distinctive social orders.

## ADVISING AND CAREERS

### ADVISING APPOINTMENTS

Martine Delannay, Room 8137, Sewell Social Sciences Building  
Martine's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/rqGGzIBy.html>)

Carolyn Lesch, Room 8139, Sewell Social Sciences Building

Carolyn's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/chDDRtWb.html>)

### ADVISOR EMAIL

[lsp@ssc.wisc.edu](mailto:lsp@ssc.wisc.edu)

Current and future UW students with a Net ID use the links above to make an appointment.

All others may send an email request to [lsp@ssc.wisc.edu](mailto:lsp@ssc.wisc.edu).

## LEGAL STUDIES, B.S.

The Legal Studies Program is an undergraduate major in the College of Letters & Science. The program's mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation of law and legal institutions. The courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around the following five themes: Legal Institutions, Processes of Legal Order and Disorder, Law and Social Forces, Law and Culture, and Law and Theory.

### Theme Group 1: Legal Institutions

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

### Theme Group 2: Processes of Legal Order and Disorder

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order." This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

### Theme Group 3: Law and Social Forces

This theme group explores the intersection between law, social structures and social movements. Courses in this group address social inequality, generally in the U.S. context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

### Theme Group 4: Law and Culture

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

### Theme Group 5: Law and Theory

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost literally all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many if not most theorists explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

## HOW TO GET IN

### PREREQUISITES FOR THE MAJOR

Those wishing to declare the major should schedule an appointment with the legal studies advisor.

To declare the legal studies major, students must complete three (3) prerequisite courses with grades of C or better. Students may be exempt from COMM-A by their English Placement score and from QR-A by their Math Placement score.

The three prerequisite courses consist of:

- a Communication A course;
- a Quantitative Reasoning A course; and
- one "Gateway Course" chosen from the list below.

### GATEWAY COURSES

Code	Title	Credits
Select one of the following: 3-4		
LEGAL ST/SOC 131	Criminal Justice in America	
LEGAL ST/POLI SCI 217	Law, Politics and Society	

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>



Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

In addition to the Gateway Courses, at least 11 courses are required to complete the legal studies major.

Code	Title	Credits
Select two courses from those listed in the Legal Institutions Theme Group		
Select four courses distributed across at least three of the following Theme Groups:		
	Processes of Legal Order & Disorder	
	Law and Social Forces	
	Law and Culture	
	Law and Theory	
Select one of the following methods courses in research and design:		
POLI SCI 170	Research Methods in Political Science	3
POLI SCI/JOURN/URB R PL 373	Introduction to Survey Research	3
PSYCH 225	Research Methods	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
Select one of the following methods courses in statistics:		
ECON 310	Statistics: Measurement in Economics	4
GEN BUS 303	Business Statistics	3
POLI SCI 374	Introduction to Statistical Inference for Political Research	3-4
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
Select one of the following Core Perspectives courses: <sup>1</sup>		
LEGAL ST/HISTORY 261	American Legal History to 1860	3

LEGAL ST/HISTORY 262	American Legal History, 1860 to the Present	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (*Civil Rights *Amer Juvenile Just *Surveillance *Privacy & Pol *Race and the Law)	3-4
LEGAL ST/HISTORY 426	The History of Punishment	3-4
LEGAL ST 450	Topics in Legal Studies and the Humanities (*Jurisprudence *Medieval Law and Society *Medico-Legal History)	3-4
LEGAL ST/LCA/RELIG ST 628	Hindu Law	3
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST/HISTORY 510	Legal Pluralism	3
LEGAL ST/HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
LEGAL ST/SOC 641	Sociology of Law	3-4
Select one of the following:		
A Senior Thesis (6 credits) <sup>2</sup>		
Two additional courses from the five Theme Groups		

### Footnotes

- <sup>1</sup> All legal studies majors are required to take one Core Perspectives course. The following courses count as Core Perspectives courses if they are taught by core legal studies faculty; if any of these courses is taught by non–legal studies faculty, the determination of whether they will count for Core Perspectives credit will be made prior to the beginning of the semester in which the course is offered. Each of these courses is intended to provide a broad and intellectually flexible perspective that can serve as a framework for gaining a deeper understanding of the material taught in other courses in the program. The Core Perspectives courses do not necessarily overlap; the criterion for inclusion of courses in the list below is that each explores its substantive content area through a range of social, scientific and humanistic approaches.
- <sup>2</sup> Students pursuing the senior thesis option must, in their senior year, arrange to register for 6 credits of 691/692 Senior Thesis, or 681/682 Senior Honors Thesis, in consecutive semesters for 3 credits each semester. Students are responsible for contacting a faculty member whom they would like to act as the senior thesis advisor; the major advisor can assist students in the process of selecting a senior thesis faculty advisor. Students must have the approval of the senior thesis faculty advisor before enrollment because the student will enroll for thesis credits in the department of the senior thesis faculty advisor. A student will not be able to enroll for thesis credits until after meeting with that faculty advisor. Students who plan to attend law school or graduate school and who maintain an overall grade point average of 3.0 or better at the beginning of the senior year (86 credits) are strongly urged to select the senior thesis option. The purpose of the senior thesis is to allow students to focus their interests and develop knowledge in one area of the field. Students may choose any legal studies topic for the senior thesis. The project involves using the library to review existing research and conducting original research designed by the student under the supervision of

a faculty advisor. Early planning is best. Students contemplating the senior thesis option should schedule a legal studies advising appointment at least one semester before enrolling in senior thesis credits. A copy of the senior thesis paper, approved by the faculty advisor, must be submitted to the major advisor upon completion of the project.

## IMPORTANT CONSIDERATIONS

**No more than four (4) courses from a single department or program will count toward the legal studies major; this restriction does not apply to courses listed in or cross listed with legal studies.**

Courses may appear in more than one Theme Group and/or Core Perspective but each course will only satisfy one requirement. Courses will not be double counted.

At least two courses in the major must have substantial content dealing with countries or cultures other than the United States. "A"<sup>1</sup> in the list of courses below designates courses meeting this requirement.

## COURSES THAT SATISFY THE REQUIREMENTS TO COMPLETE THE MAJOR

### Theme Group 1: Legal Institutions

Code	Title	Credits
Theme Group 1: Legal Institutions		
GEN BUS 301	Business Law	3
ELPA 502	Workshop in Educational Leadership and Policy Analysis (*Law and Public Educ)	1-3
LEGAL ST/ HISTORY 261	American Legal History to 1860	3
LEGAL ST/ HISTORY 262	American Legal History, 1860 to the Present	3
LEGAL ST 450	Topics in Legal Studies and the Humanities	3-4
LEGAL ST 444	Law in Action	3
LEGAL ST/SOC 415	The Legal Profession	3-4
LEGAL ST 409	Human Rights in Law and Society <sup>1</sup>	3
LEGAL ST/LAW/ SOC 641	Sociology of Law	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 510	Politics of Government Regulation	3-4

POLI SCI 601	Proseminar: Topics in Political Science	3
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<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

### Theme Group 2: Process of Legal Order and Disorder

Code	Title	Credits
Theme Group 2: Process of Legal Order and Disorder		
COM ARTS 371	Communication and Conflict Resolution	3
COM ARTS 671	Communication and Social Conflict	3
ENVR ST/ M&ENVTX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
INTL ST 601	Topics in Global Security (International Criminal Justice: Models & Practice)	1-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST 405	Foundations of Field Education	2
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST/SOC 694	Criminal Justice Field Observation	2-3
POLI SCI 314	Criminal Law and Justice	3-4
PSYCH 601	Current Topics in Psychology	3
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
R M I 615	Liability Risk Management	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4

### Theme Group 3: Law and Social Forces

Code	Title	Credits
Theme Group 3: Law and Social Forces		
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3
AFROAMER 671	Selected Topics in Afro-American History (*Crim Blkns; Race & Inprison)	3
AFROAMER 673	Selected Topics in Afro-American Society (*Race and Policing )	3
AMER IND 450	Issues in American Indian Studies (*Indigenous Rights *Nat Resources)	3
ECON 522	Law and Economics	3-4
ENVR ST 402	Special Topics: Social Perspectives in Environmental Studies (Climate Change Governance)	1-4
HISTORY 408	American Labor History: 1900-Present	3-4
GEN&WS/ LEGAL ST 422	Women and the Law	3

GEN&WS 424	Women's International Human Rights	3
GEOG/ENVIR ST 439	US Environmental Policy and Regulation	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
HISTORY/AFROAMER 628	History of the Civil Rights Movement in the United States	3
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/ENVIR ST 430	Law and Environment: Rights and Resources	3
LEGAL ST/SOC 641	Sociology of Law	3-4
LEGAL ST/L I S 645	Intellectual Freedom	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3
LEGAL ST/GEN&WS 422	Women and the Law	3
POLI SCI/INTL ST 434	The Politics of Human Rights	3-4
PSYCH 311	Issues in Psychology (*Psychology of Law)	1-4
PSYCH 601	Current Topics in Psychology	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC 496	Topics in Sociology (*Gender, Crime and Justice)	1-3

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

#### Theme Group 4: Law and Culture

Code	Title	Credits
Theme Group 4: Law and Culture		
ANTHRO 350	Political Anthropology <sup>1</sup>	3-4
ANTHRO 448	Anthropology of Law <sup>1</sup>	3
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (*Law & Lit *Prison & the dream of freed)	3
COMP LIT 350	Problems in Comparative Literatures and Cultures (*Literature and Prison *Literature & Prison)	3-4
COMP LIT 500	The Comparative In and Beyond Comparative Literature (*Guilt)	3
ENGL 142	Mystery and Crime Fiction	3
HISTORY 201	The Historian's Craft (*Shanghai Life)	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
ILS 371	Interdisciplinary Studies in the Arts and Humanities (*Books by Crooks)	3
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts <sup>1</sup>	3
LEGAL ST 450	Topics in Legal Studies and the Humanities (*Law and Film *Medico-Legal)	3-4
LEGAL ST/LCA/RELIG ST 628	Hindu Law <sup>1</sup>	3

LEGAL ST/HISTORY 502	Law and Colonialism <sup>1</sup>	3
LEGAL ST/HISTORY 510	Legal Pluralism <sup>1</sup>	3
LITTRANS 236	Bascom Course-In Translation (*Extreme Stories)	3

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

#### Theme Group 5: Law and Theory

Code	Title	Credits
Theme Group 5: Law and Theory		
LEGAL ST/HISTORY 426	The History of Punishment <sup>1</sup>	3-4
LEGAL ST/HISTORY 459	Rule of Law: Philosophical and Historical Models <sup>1</sup>	3-4
JOURN 675	Topics in Government and Mass Media	3
MED HIST/PHILOS 558	Ethical Issues in Health Care	3
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS 559	Philosophy of Law	3
PHILOS/MED HIST/AGRONOMY/C&E SOC 565	The Ethics of Modern Biotechnology	3-4

<sup>1</sup> This course has substantial content dealing with countries or cultures other than the United States.

#### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LEGAL ST and major courses

2.000 GPA on 15 upper-level major credits, taken in residence: LEGAL ST and major courses that are designated at intermediate or advanced level count as upper level.

15 credits in LEGAL ST and courses for the major, taken on campus

#### HONORS IN THE MAJOR

Students may apply for admission to Honors in the Legal Studies Major in consultation with the Legal Studies undergraduate advisor(s).

#### HONORS IN THE LEGAL STUDIES MAJOR ENTRANCE REQUIREMENTS

- Declaration of the legal studies major
- A 3.300 overall university GPA
- A 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Completion of or current enrollment in, for Honors credit, at least one course accepted in the major

#### HONORS IN THE LEGAL STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Legal Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA

- Earn a 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Complete the research design and statistics requirements for the regular major prior to enrollment in the Senior Honors Thesis (typically junior year)
- Complete 15 credits in the major, taken for Honors, earning a B or better grade in each course
- Complete a two-semester Senior Honors thesis in LEGAL ST 681 Senior Honors Thesis and LEGAL ST 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> The equivalent course in the advisor's home department may be acceptable; please see the legal studies undergraduate advisor(s) for details.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
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Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Introduce students to the social, political, economic, and cultural determinants of law.
2. Introduce students to the social, political, and economic impacts of law at the macro level.
3. Introduce students to the impact of law and other rules on individual level decision-making at the micro level.
4. Introduce students to the dynamics of legal ideas and ideologies.
5. Introduce students to the practical skills needed to analyze legal phenomena and to access legal resources, broadly defined.
6. Introduce students to the nature of legal reasoning and analysis in common law, civil law, and other legal systems.
7. Introduce students to the functioning of legal institutions, and how those institutions differ from other societal institutions.
8. Introduce students to the place and relevance of law within the humanities and social sciences.
9. Introduce students to the cross-cultural and international valences of law in distinctive social orders.

## ADVISING AND CAREERS

### ADVISING APPOINTMENTS

Martine Delannay, Room 8137, Sewell Social Sciences Building  
Martine's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/rqGGzIBy.html>)

Carolyn Lesch, Room 8139, Sewell Social Sciences Building  
Carolyn's appointment calendar (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/chDDrTwb.html>)

### ADVISOR EMAIL

[lsp@ssc.wisc.edu](mailto:lsp@ssc.wisc.edu)

Current and future UW students with a Net ID use the links above to make an appointment.

All others may send an email request to [lsp@ssc.wisc.edu](mailto:lsp@ssc.wisc.edu).

## LETTERS AND SCIENCE - COLLEGE-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, B.A. (p. 900)
- Individual Major, B.S. (p. 903)

## INDIVIDUAL MAJOR, B.A.

The individual major within the College of Letters & Science is a method of fulfilling the depth requirement for students whose interests bridge existing departments and disciplines in ways not accommodated by an existing major or interdisciplinary program. The individual major must consist of a coherent pattern of courses in more than one department or recognized interdisciplinary program in the College of Letters & Science and must be approved by a faculty committee consisting of faculty from appropriate faculty from the College of Letters and Science. Getting approval to pursue an individual major is never guaranteed. Thus, students should discuss alternative majors with their academic advisors and be willing to pursue them. Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 110 Ingraham Hall and set up an individual appointment with the coordinator for the individual major prior to starting this process.

### HOW TO GET IN

## ELIGIBILITY

Any student working toward an L&S degree may elect to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW–Madison campus are not eligible to pursue an individual major within Letters & Science.*) The individual major **must** receive approval during the second-semester of the sophomore year or first semester of junior year to ensure that they can complete the major within four years. **All students are required to earn at least 30 degree**

credits after the term in which approval is given. A student may complete only one individual major.

## APPLYING FOR AN INDIVIDUAL MAJOR

Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters only. Applications received after that deadline will be reviewed during the following term. Individual major applications are not reviewed during the summer.

The application **must** include all items outlined below:

1. The individual major application form;
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major's applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program;
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student's current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

Each individual major application is reviewed by a committee of three faculty members from the College of Letters & Science, each representing a department related to the proposed major. The faculty committee evaluates the proposal for coherence, appropriate breadth and depth, and similarity to existing majors. The committee may approve the proposal as submitted, recommend modifications, reject the proposal altogether, or reject it with an invitation to revise and resubmit in a later semester.

**The committee's decision is final. Committee approval is necessary for the student to declare the individual major.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR DEVELOPING AN INDIVIDUAL MAJOR

Any student working toward an L&S degree may elect to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW–Madison campus are not eligible to pursue an Individual Major within Letters & Science.*) This major must receive approval during the second-semester of the sophomore year or first semester of junior year. **Students in the individual major are required to earn at least 30 degree credits after the term in which approval is given.** A student may complete only one individual major.

**Developing an Individual Major.** The student takes primary responsibility for developing an individual major proposal. A well-written proposal must meet the requirements and rigor for a major in the College of Letters & Science; therefore, a proposal must be more than a list of courses that are similar in content area or subject matter. The student proposing an individual major must also demonstrate that the proposed individual major is not currently available as an option in any of the L&S majors or certificate programs.

Students interested in the individual major should consult with the individual major coordinator as part of the process of defining the theme or topic for the individual major. The coordinator will provide information and feedback about the construction of the major and how it might relate to other majors in the college as well.

Once a theme or topic has been identified, the student must find a tenured faculty member in the College of Letters & Science who is willing to serve as the individual major adviser. This designated faculty adviser will:

- assist the student in constructing the individual major proposal by defining the relevant themes, learning objectives, and rationale for the major and by sharpening presentation of the student’s individual major proposal;
- assist in the review and selection of courses for the major plan included in the proposal;
- advise the student in course selection after the proposal is approved and, in consultation with the individual major coordinator, track progress toward completion of the major.

As soon as the topic and the advisor (i.e., a tenured faculty member in an L&S academic department) are known, the student should meet with the individual major coordinator within L&S Academic Deans’ Services by calling 608-262-0617 to set up a meeting. *The purpose of this meeting is to review the details of individual major requirements and to review procedures.*

**Applying for an Individual Major.** Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters. Applications received after that deadline will be reviewed

during the following term. Individual major applications are not reviewed during the summer.

The application must include:

1. the individual major application form ([http://saa.ls.wisc.edu/documents/Individual\\_Major\\_Application\\_Information.pdf](http://saa.ls.wisc.edu/documents/Individual_Major_Application_Information.pdf));
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major’s applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program;
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student’s current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

Each individual major application is reviewed by a committee of three faculty members from the College of Letters & Science, each representing a department related to the proposed major. The faculty committee evaluates the proposal for coherence, appropriate breadth and depth, and similarity to existing majors. The committee may approve the proposal as submitted, recommend modifications, reject the proposal altogether, or reject it with an invitation to revise and resubmit in a later semester. **The committee’s decision is final. Committee approval is necessary for the student to declare the individual major.**

## INDIVIDUAL MAJOR WITH HONORS

Students may propose to complete an Individual Major with Honors by appending an Honors in the Major proposal to their regular individual major proposal.

### HONORS IN THE INDIVIDUAL MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Individual Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Complete 36 credits toward the individual major
- Complete 20 credits, taken for Honors, with individual grades of B or better, toward the individual major, to include a two-semester Senior Honors Thesis for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
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**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

received after that deadline will be reviewed during the following term. Individual major applications are not reviewed during the summer.

The application **must** include all items outlined below:

1. The individual major application form;
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major’s applicability to future goals and plans;
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## ADVISING AND CAREERS

Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans’ Services at 608-262-0617 in 110 Ingraham Hall and set up an individual appointment with the coordinator for the individual major prior to starting this process.

***The purpose of this meeting is to review the details of individual major requirements and to review procedures.***

## INDIVIDUAL MAJOR, B.S.

The individual major within the College of Letters & Science is a method of fulfilling the depth requirement for students whose interests bridge existing departments and disciplines in ways not accommodated by an existing major or interdisciplinary program. The individual major must consist of a coherent pattern of courses in more than one department or recognized interdisciplinary program in the College of Letters & Science and must be approved by a faculty committee consisting of faculty from appropriate faculty from the College of Letters and Science. Getting approval to pursue an individual major is never guaranteed. Thus, students should discuss alternative majors with their academic advisors and be willing to pursue them. Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans’ Services at 608-262-0617 in 110 Ingraham Hall and set up an individual appointment with the coordinator for the individual major prior to starting this process.

## HOW TO GET IN

### ELIGIBILITY

Any student working toward an L&S degree may elect to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW–Madison campus are not eligible to pursue an individual major within Letters & Science.*) The individual major **must** receive approval during the second-semester of the sophomore year or first semester of junior year to ensure that they can complete the major within four years. **All students are required to earn at least 30 degree credits after the term in which approval is given.** A student may complete only one individual major.

### APPLYING FOR AN INDIVIDUAL MAJOR

Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters only. Applications

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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**Requirements Detail**

General Education	<ul style="list-style-type: none"> <li>Breadth—Humanities/Literature/Arts: 6 credits</li> <li>Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth—Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

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### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

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## REQUIREMENTS FOR THE MAJOR DEVELOPING AN INDIVIDUAL MAJOR

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**The committee's decision is final. Committee approval is necessary for the student to declare the individual major.**

## INDIVIDUAL MAJOR WITH HONORS

Students may propose to complete an Individual Major with Honors by appending an Honors in the Major proposal to their regular individual major proposal.

### HONORS IN THE INDIVIDUAL MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Individual Major students must satisfy both the requirements for the major (above) and the following additional requirements:

- Complete 36 credits toward the individual major
- Complete 20 credits, taken for Honors, with individual grades of B or better, toward the individual major, to include a two-semester Senior Honors Thesis for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 110 Ingraham Hall and set up an individual appointment with the coordinator for the individual major prior to starting this process.

***The purpose of this meeting is to review the details of individual major requirements and to review procedures.***

## LINGUISTICS

Linguistics is the scientific study of language. It investigates the common principles underlying all human languages, as well as the organization of particular languages. It is expected that undergraduates with a major in linguistics will be able to:

- demonstrate a sound knowledge of the fields of phonetics (articulatory and acoustic properties of speech), phonology (the organization of the sound system of languages), morphology (the structure of words), syntax (the structure of sentences), and semantics (the interpretation of structures);
- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

The linguistics major program can be enriched through linguistics-related courses offered in other departments such as the language departments, the departments of psychology, philosophy, and communicative disorders.

## DEGREES/MAJORS/CERTIFICATES

- Linguistics, B.A. (p. 906)
- Linguistics, B.S. (p. 909)

## PEOPLE

Professors Li, Macaulay, Raimy, Salmons, Valentine; Lecturer Shields

## LINGUISTICS, B.A.

Linguistics is the scientific study of language. It investigates the common principles underlying all human languages, as well as the organization of particular languages. It is expected that undergraduates with a major in linguistics will be able to:

- demonstrate a sound knowledge of the fields of phonetics (articulatory and acoustic properties of speech), phonology (the organization of the sound system of languages), morphology (the structure of words), syntax (the structure of sentences), and semantics (the interpretation of structures);
- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

The linguistics major program can be enriched through linguistics-related courses offered in other departments such as the language departments, the departments of psychology, philosophy, and communicative disorders.

### HOW TO GET IN

Undergraduate students wishing to major in linguistics should consult the Requirements (p. 906) tab. Students must contact the Linguistics undergraduate advisor Professor Monica Macaulay, [mmacaula@wisc.edu](mailto:mmacaula@wisc.edu), to declare linguistics as a major. Inquire in 1168 Van Hise Hall or call 608-262-2292 for the undergraduate advisor's office hours. All students proposing to major in linguistics must consult the department's undergraduate advisor.

Any exceptions to the departmental requirements must be approved by the Degree Programs Committee of the Department of Linguistics. Note that the undergraduate advisor of the department cannot authorize exceptions. Students requesting exceptions must prepare a written petition and submit it to the department administrator, who will then forward it to the Degree Programs Committee members.

The petition must justify the exception request by providing detailed information on the circumstances, and by including all relevant documents. The Degree Programs Committee considers each case individually on its merits. Approval is granted rarely, and only under extraordinary circumstances. Not having time to satisfy requirements before graduating is not a valid excuse.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

30 credits are required for the major, to include the following:

Code	Title	Credits
<i>Language</i>		
All majors must complete a fourth unit, or higher, in a foreign language, or place out of the fourth semester college course in a foreign language based on UW–Madison language placement scores.		
<i>Linguistics Courses</i>		15
LINGUIS 101 or LINGUIS/ ANTHRO 301	Human Language Introduction to Linguistics: Descriptive and Theoretical	
LINGUIS 310	Phonology	
LINGUIS 330	Syntax	
LINGUIS 322	Morphology	
LINGUIS 340	Semantics	
Select one 500-level LINGUIS elective course		3
LINGUIS 510	Phonological Theories	
LINGUIS 522	Advanced Morphology	
LINGUIS 530	Syntactic Theories	
LINGUIS 540	Advanced Semantics	
LINGUIS 561	Introduction to Experimental Phonetics	
LINGUIS 562	Advanced Experimental Phonetics	
LINGUIS 571	Structure of a Language	
Select one of the following "capstone" courses which will normally be taken in spring semester of the senior year, after completing the requirements above requirements:		3
LINGUIS 426 or LINGUIS 427	Field Methods I Field Methods II	
<i>Electives</i>		9
Select elective credits to reach 30 credit minimum for the major. At least three courses are required. See the list of approved electives below. In addition to the list below, other LINGUIS courses may be used as an elective. <sup>1</sup>		
Total Credits		30

<sup>1</sup> Any other LINGUIS course may count toward elective credits for the major, except for: LINGUIS 236, LINGUIS 481, LINGUIS 482, LINGUIS 583, LINGUIS 584, LINGUIS 681, LINGUIS 682.

## LIST OF APPROVED ELECTIVES FOR THE LINGUISTICS MAJOR

Code	Title	Credits
AFRICAN 301	Introduction to African Linguistics	3
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 503	African Linguistic Structures- Morphology and Syntax	3-4
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	3
AMER IND/ANTHRO/ FOLKLORE 431	American Indian Folklore	3
ANTHRO/LCA/ LINGUIS 430	Language and Culture	3-4
CS&D 110	Introduction to Communicative Disorders	3
CS&D 201	Speech Science	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
COMP SCI 545	Natural Language and Computing	3
CURRIC 368	The Teaching of Reading	3
E ASIAN 358	Language in Japanese Society	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN 434	Introduction to Japanese Linguistics	3
E ASIAN 631	History of the Chinese Language	3
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 413	English Words: Grammar, Culture, Mind	3
ENGL 414	Global Spread of English	3
ENGL 415	Introduction to TESOL Methods	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL/GEN&WS 419	Gender and Language	3
ENGL 420	Topics in English Language and Linguistics	3
ENGL 514	English Syntax	3
ENGL 516	English Grammar in Use	3

FOLKLORE/L I S 490	Field Methods and the Public Presentation of Folklore	3	CS&D 201	Speech Science	3
FOLKLORE/COM ARTS 522	Digitally Documenting Everyday Communication	3	CS&D 210	Neural Basis of Communication	3
ITALIAN 340	Structures of Italian	3	CS&D 303	Speech Acoustics and Perception	3
ITALIAN/FRENCH/PORTUG/ SPANISH 429	Introduction to the Romance Languages	3	CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
GERMAN 351	Introduction to German Linguistics	3-4	COMP SCI 545	Natural Language and Computing	3
GERMAN 352	Topics in German Linguistics	3-4	E ASIAN 358	Language in Japanese Society	3
GERMAN 650	History of the German Language	3	E ASIAN 431	Introduction to Chinese Linguistics	3
HISTORY/ AMER IND 490	American Indian History	3-4	E ASIAN 432	Introduction to Chinese Linguistics	3
PHILOS 516	Language and Meaning	3	E ASIAN 434	Introduction to Japanese Linguistics	3
PSYCH 406	Psychology of Perception	3-4	E ASIAN 631	History of the Chinese Language	3
PSYCH 413	Language, Mind, and Brain	3	E ASIAN 632	History of the Chinese Language	3
PSYCH 414	Cognitive Psychology	3	ENGL/ MEDIEVAL 520	Old English	3
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4	ENGL/ MEDIEVAL 522	Middle English Language	3
SCAND ST 410	Introduction to Scandinavian Linguistics	3	ENGL 417	History of the English Language	3
SCAND ST 510	Topics in Scandinavian Linguistics	3	ENGL 314	Structure of English	3
L I S 351	Introduction to Digital Information	3	ENGL 516	English Grammar in Use	3
L I S 640	Topics in Library and Information Studies (TLAM only)	1-3	ENGL 514	English Syntax	3
SOC 535	Talk and Social Interaction	3	ENGL 315	English Phonology	3
SPANISH 320	Spanish Phonetics	3	ENGL 316	English Language Variation in the U.S.	3
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3	ENGL 414	Global Spread of English	3
SPANISH 446	Topics in Spanish Linguistics	3	ENGL 318	Second Language Acquisition	3
SPANISH 543	Spanish Phonology	3	ENGL 416	English in Society	3
SPANISH 544	Contemporary Issues in Applied Spanish Linguistics	3	FRENCH/ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
SPANISH 548	Structure of the Spanish Language: Morphology and Syntax	3	GERMAN 351	Introduction to German Linguistics	3-4
SPANISH 630	Topics in Hispanic Linguistics	3	GERMAN 352	Topics in German Linguistics	3-4
			GERMAN 650	History of the German Language	3
			GERMAN/ MEDIEVAL 651	Introduction to Middle High German	3
			LCA 441	Language and Society in Southeast Asia	3
			PHILOS 516	Language and Meaning	3
			PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language	3
			SCAND ST/ MEDIEVAL 407	Old Norse	3
			SCAND ST/ MEDIEVAL 408	Old Norse	3
			SCAND ST 410	Introduction to Scandinavian Linguistics	3
			SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	3
			SOC 535	Talk and Social Interaction	3
			SPANISH/ INTL BUS 329	Spanish for Business	3
			SPANISH 630	Topics in Hispanic Linguistics	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LINGUIS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in LINGUIS taken on the UW–Madison campus

<sup>1</sup> LINGUIS 340 Semantics and LINGUIS 373 Topics in Linguistics; any LINGUIS courses designated as intermediate or advanced; and appropriate courses from other departments defined as upper level count toward this requirement.

## Courses from Other Departments Defined as Upper Level in the Linguistics Major

Code	Title	Credits
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 501	Structure and Analysis of African Languages	3-4

## HONORS IN THE MAJOR

Students may declare Honors in the Linguistics Major in consultation with the Linguistics chair (p. 909).

### HONORS IN THE LINGUISTICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Linguistics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all LINGUIS courses, and all courses accepted in the major
- Complete two LINGUIS courses, taken for Honors credit, with individual grades of B or better
- Complete a two-semester Senior Honors Thesis in LINGUIS 681 Honors Seminar-Senior Thesis and LINGUIS 682 Honors Seminar-Senior Thesis, leading to submission of an acceptable paper, for a total of 6 credits. A grade of B or better must be earned in the thesis project.

Note that Honors tutorial credits and the Senior Honors Thesis do not count toward the 30 credits required for the major in linguistics.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Familiarity with data from a wide range of languages from different language families.
2. Ability to respond to biased views of language in their communities.
3. Knowledge in all core areas of linguistics: Phonetics, phonology, morphology, syntax, and semantics.
4. Sound grasp of linguistic concepts.
5. Sound grasp of linguistic methodology.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING

Rebecca Shields, Undergraduate Advisor  
rashields@wisc.edu

Inquire in 1168 Van Hise Hall or call 608-262-2292 for office hours and available meeting times.

### LETTERS & SCIENCE CAREER SERVICES

The Department of Linguistics encourages our majors to begin working on their career exploration and preparation soon after declaring their major. Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Professors Li, Macaulay, Raimy, Salmons, Valentine; Lecturer Shields

## LINGUISTICS, B.S.

Linguistics is the scientific study of language. It investigates the common principles underlying all human languages, as well as the organization of particular languages. It is expected that undergraduates with a major in linguistics will be able to:

- demonstrate a sound knowledge of the fields of phonetics (articulatory and acoustic properties of speech), phonology (the organization of the sound system of languages), morphology (the structure of words), syntax (the structure of sentences), and semantics (the interpretation of structures);
- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

The linguistics major program can be enriched through linguistics-related courses offered in other departments such as the language departments, the departments of psychology, philosophy, and communicative disorders.

## HOW TO GET IN

Undergraduate students wishing to major in linguistics should consult the Requirements (p. 906) tab. Students must contact the Linguistics undergraduate advisor Professor Monica Macaulay, [mmacaula@wisc.edu](mailto:mmacaula@wisc.edu), to declare linguistics as a major. Inquire in 1168 Van Hise Hall or call 608-262-2292 for the undergraduate advisor's office hours. All students proposing to major in linguistics must consult the department's undergraduate advisor.

Any exceptions to the departmental requirements must be approved by the Degree Programs Committee of the Department of Linguistics. Note that the undergraduate advisor of the department cannot authorize exceptions. Students requesting exceptions must prepare a written petition and submit it to the department administrator, who will then forward it to the Degree Programs Committee members.

The petition must justify the exception request by providing detailed information on the circumstances, and by including all relevant documents. The Degree Programs Committee considers each case individually on its merits. Approval is granted rarely, and only under extraordinary circumstances. Not having time to satisfy requirements before graduating is not a valid excuse.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

30 credits are required for the major, to include the following:

Code	Title	Credits
<i>Language</i>		
All majors must complete a fourth unit, or higher, in a foreign language, or place out of the fourth semester college course in a foreign language based on UW–Madison language placement scores.		

*Linguistics Courses*

LINGUIS 101	Human Language	
or LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	
LINGUIS 310	Phonology	
LINGUIS 330	Syntax	
LINGUIS 322	Morphology	
LINGUIS 340	Semantics	
Select one 500-level LINGUIS elective course		3
LINGUIS 510	Phonological Theories	
LINGUIS 522	Advanced Morphology	
LINGUIS 530	Syntactic Theories	
LINGUIS 540	Advanced Semantics	
LINGUIS 561	Introduction to Experimental Phonetics	
LINGUIS 562	Advanced Experimental Phonetics	
LINGUIS 571	Structure of a Language	
Select one of the following "capstone" courses which will normally be taken in spring semester of the senior year, after completing the requirements above requirements:		3
LINGUIS 426	Field Methods I	
or LINGUIS 427	Field Methods II	
<i>Electives</i>		
Select elective credits to reach 30 credit minimum for the major. At least three courses are required. See the list of approved electives below. In addition to the list below, other LINGUIS courses may be used as an elective. <sup>1</sup>		9
Total Credits		30

<sup>1</sup> Any other LINGUIS course may count toward elective credits for the major, except for: LINGUIS 236, LINGUIS 481, LINGUIS 482, LINGUIS 583, LINGUIS 584, LINGUIS 681, LINGUIS 682.

## LIST OF APPROVED ELECTIVES FOR THE LINGUISTICS MAJOR

Code	Title	Credits
AFRICAN 301	Introduction to African Linguistics	3
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 503	African Linguistic Structures-Morphology and Syntax	3-4
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	3
AMER IND/ANTHRO/ FOLKLORE 431	American Indian Folklore	3
ANTHRO/LCA/ LINGUIS 430	Language and Culture	3-4
CS&D 110	Introduction to Communicative Disorders	3
CS&D 201	Speech Science	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3

CS&D 315	Phonetics and Phonological Development	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
COMP SCI 545	Natural Language and Computing	3
CURRIC 368	The Teaching of Reading	3
E ASIAN 358	Language in Japanese Society	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN 434	Introduction to Japanese Linguistics	3
E ASIAN 631	History of the Chinese Language	3
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 413	English Words: Grammar, Culture, Mind	3
ENGL 414	Global Spread of English	3
ENGL 415	Introduction to TESOL Methods	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL/GEN&WS 419	Gender and Language	3
ENGL 420	Topics in English Language and Linguistics	3
ENGL 514	English Syntax	3
ENGL 516	English Grammar in Use	3
FOLKLORE/L I S 490	Field Methods and the Public Presentation of Folklore	3
FOLKLORE/ COM ARTS 522	Digitally Documenting Everyday Communication	3
ITALIAN 340	Structures of Italian	3
ITALIAN/FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
GERMAN 351	Introduction to German Linguistics	3-4
GERMAN 352	Topics in German Linguistics	3-4
GERMAN 650	History of the German Language	3
HISTORY/ AMER IND 490	American Indian History	3-4
PHILOS 516	Language and Meaning	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4
SCAND ST 410	Introduction to Scandinavian Linguistics	3
SCAND ST 510	Topics in Scandinavian Linguistics	3
L I S 351	Introduction to Digital Information	3

L I S 640	Topics in Library and Information Studies (TLAM only)	1-3
SOC 535	Talk and Social Interaction	3
SPANISH 320	Spanish Phonetics	3
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3
SPANISH 446	Topics in Spanish Linguistics	3
SPANISH 543	Spanish Phonology	3
SPANISH 544	Contemporary Issues in Applied Spanish Linguistics	3
SPANISH 548	Structure of the Spanish Language: Morphology and Syntax	3
SPANISH 630	Topics in Hispanic Linguistics	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all LINGUIS and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in LINGUIS taken on the UW–Madison campus

<sup>1</sup> LINGUIS 340 Semantics and LINGUIS 373 Topics in Linguistics; any LINGUIS courses designated as intermediate or advanced; and appropriate courses from other departments defined as upper level count toward this requirement.

## Courses from Other Departments Defined as Upper Level in the Linguistics Major

Code	Title	Credits
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 501	Structure and Analysis of African Languages	3-4
CS&D 201	Speech Science	3
CS&D 210	Neural Basis of Communication	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
COMP SCI 545	Natural Language and Computing	3
E ASIAN 358	Language in Japanese Society	3
E ASIAN 431	Introduction to Chinese Linguistics	3
E ASIAN 432	Introduction to Chinese Linguistics	3
E ASIAN 434	Introduction to Japanese Linguistics	3
E ASIAN 631	History of the Chinese Language	3
E ASIAN 632	History of the Chinese Language	3
ENGL/ MEDIEVAL 520	Old English	3
ENGL/ MEDIEVAL 522	Middle English Language	3
ENGL 417	History of the English Language	3
ENGL 314	Structure of English	3
ENGL 516	English Grammar in Use	3
ENGL 514	English Syntax	3
ENGL 315	English Phonology	3
ENGL 316	English Language Variation in the U.S.	3

ENGL 414	Global Spread of English	3
ENGL 318	Second Language Acquisition	3
ENGL 416	English in Society	3
FRENCH/ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	3
GERMAN 351	Introduction to German Linguistics	3-4
GERMAN 352	Topics in German Linguistics	3-4
GERMAN 650	History of the German Language	3
GERMAN/ MEDIEVAL 651	Introduction to Middle High German	3
LCA 441	Language and Society in Southeast Asia	3
PHILOS 516	Language and Meaning	3
PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language	3
SCAND ST/ MEDIEVAL 407	Old Norse	3
SCAND ST/ MEDIEVAL 408	Old Norse	3
SCAND ST 410	Introduction to Scandinavian Linguistics	3
SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	3
SOC 535	Talk and Social Interaction	3
SPANISH/ INTL BUS 329	Spanish for Business	3
SPANISH 630	Topics in Hispanic Linguistics	3

## HONORS IN THE MAJOR

Students may declare Honors in the Linguistics Major in consultation with the Linguistics chair (p. 909).

## HONORS IN THE LINGUISTICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Linguistics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all LINGUIS courses, and all courses accepted in the major
- Complete two LINGUIS courses, taken for Honors credit, with individual grades of B or better
- Complete a two-semester Senior Honors Thesis in LINGUIS 681 Honors Seminar-Senior Thesis and LINGUIS 682 Honors Seminar-Senior Thesis, leading to submission of an acceptable paper, for a total of 6 credits. A grade of B or better must be earned in the thesis project.

Note that Honors tutorial credits and the Senior Honors Thesis do not count toward the 30 credits required for the major in linguistics.



## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

### LEARNING OUTCOMES

1. Familiarity with data from a wide range of languages from different language families.
2. Ability to respond to biased views of language in their communities.
3. Knowledge in all core areas of linguistics: Phonetics, phonology, morphology, syntax, and semantics.
4. Sound grasp of linguistic concepts.
5. Sound grasp of linguistic methodology.

### ADVISING AND CAREERS

## UNDERGRADUATE ADVISING

Rebecca Shields, Undergraduate Advisor  
rashields@wisc.edu

Inquire in 1168 Van Hise Hall or call 608-262-2292 for office hours and available meeting times.

## LETTERS & SCIENCE CAREER SERVICES

The Department of Linguistics encourages our majors to begin working on their career exploration and preparation soon after declaring their major. Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

### PEOPLE

Professors Li, Macaulay, Raimy, Salmons, Valentine; Lecturer Shields

## MATHEMATICS

Mathematics is classified with both the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. Still an expanding subject, mathematics offers more new and challenging frontiers than at any time in its long history—with many new fields, requiring new techniques and ideas for exploration.

The place of mathematics among the sciences is well founded. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research.

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 914).

### DEGREES/MAJORS/CERTIFICATES

- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 914)
- Mathematics, B.A. (p. 916)
- Mathematics, B.S. (p. 925)
- Mathematics, Certificate (p. 934)

## PEOPLE

### FACULTY

Professors Angenent, Arinkin, Assadi, Bolotin, Boston, Caldararu, Craciun, Denissov, Ellenberg, Feldman, Gong, Jin, Lempp, Mari-Beffa, Maxim, Miller, Mitchell, Paul, Roch, Seeger, Seppalainen, Smith, Terwilliger, Thiffeault, Valko, Viaclovsky, Waleffe, Yang.

Associate Professors Anderson, Gurevich, Stechmann, Street, Kent.

Assistant Professors Andrews, Dymarz, Erman, Kim, Marshall, Sam, Spagnolie, Stovall, Tran, B. Wang, L. Wang, M. Matchett Wood, P. Matchett Wood, Li.

### ACADEMIC STAFF

Anzaldo (Precalculus Coordinator), Benguria-Andrews (Calculus Coordinator), Hanhart (Associate Director of Undergraduate Studies), Kwon (Math 13X Coordinator), Malekpour (Director of the Instructional Excellence Program, WISCEL), Rivard (Placement and Enrollment Coordinator)

## APPLIED MATHEMATICS, ENGINEERING, AND PHYSICS, B.S. AMEP

This four-year degree program in the interdisciplinary physical sciences offers a strong theoretical foundation in related areas of engineering sciences, mathematics, and physics for professional work in the field of industrial research and technology. It also provides a foundation for graduate degree work in applied mathematics, engineering sciences, and physics.

The AMEP program is an excellent choice for the student with broad interests in mathematics, physics and engineering. AMEP emphasizes an integrated mathematics and physics curriculum and strives to achieve an optimum balance of breadth and depth in the physical sciences within the confines of a four-year degree.

## HOW TO GET IN

### ENTRANCE REQUIREMENTS

Because admission into AMEP is internal to UW–Madison, a student must be admitted to UW–Madison or already be a UW–Madison student to join AMEP.

Admission into AMEP as a *freshman* requires placement into Math 222 at least, although placement into Math 234 (4 or 5 on the AP Calculus BC exam) is preferred. Admission into AMEP as a sophomore or junior requires a 2.75 GPA in introductory core courses taken in the *mathematics and physics departments*.

## DECLARING APPLIED MATHEMATICS, ENGINEERING, AND PHYSICS UNDERGRADUATE DEGREE PROGRAM (AMEP)

Students should declare AMEP as soon as possible. The first step in declaring the AMEP degree is to visit an AMEP math faculty advisor.

Students fill out an AMEP degree declaration form ([https://www.math.wisc.edu/sites/default/files/private/AMEP\\_MAJOR\\_Declaration\\_form.pdf](https://www.math.wisc.edu/sites/default/files/private/AMEP_MAJOR_Declaration_form.pdf)) (PDF) to change to the “AMP” designation and meet with an AMEP math faculty advisor (see AMEP faculty advisors (<https://www.math.wisc.edu/amep/advising/#advisors>)) who needs to approve and sign the declaration form.

Look for AMEP faculty advisors' office hours in the MATH ADVISING CALENDAR (<https://www.math.wisc.edu/undergraduate/math-major-advising-calendar>) or on the professor's web page (see Declaring AMEP (<https://www.math.wisc.edu/amep/advising/#declare>)). When contacting a professor, students should make sure they put “AMEP (<https://www.math.wisc.edu/amep>)” in the subject line and send a brief clear message, since professors receive many emails.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE LIBERAL ARTS AND SCIENCE: BS-AMEP LIBERAL ARTS AND SCIENCE (LAS) REQUIREMENT

A minimum of 20 credits in Liberal Arts and Science courses outside the physical and mathematical sciences are required. **Courses may not carry a Physical Science designation or be listed (or cross-listed) in the MATH or COMP SCI subjects.**

1. Complete a minimum of 12 credits in humanities and/or social studies (including a minimum of 6 credits of humanities and 3 credits of social studies as part of the University General Education Requirements).
2. Credits may include a maximum of 8 credits in biological sciences.
3. Additional L&S credits outside physical sciences (excluding computer science and mathematics).

### FOREIGN LANGUAGE REQUIREMENT

AMEP degree candidates must complete the 2nd unit of a foreign language either through high school language study or college coursework. A unit of a foreign language is equivalent to one year of high school work or one semester/term of college-level work.

## REQUIREMENTS FOR THE MAJOR

A total of at least 125 credits with a minimum GPA of 2.000 is required.

The basic requirements for the major include:

Code	Title	Credits
<b>FOUNDATION: Mathematics (2.750 GPA)</b> <sup>1</sup>		13
MATH 221 or MATH 275	Calculus and Analytic Geometry 1 Topics in Calculus I	
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	
<b>FOUNDATION: Physics (2.750 GPA)</b>		13-14
<i>First Introductory course</i>		
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>1</sup>	
<i>Second Introductory course</i>		
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
<i>Third Introductory course</i>		
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 249	A Modern Introduction to Physics	
<b>CORE: Chemistry</b>		5-9
CHEM 109	Advanced General Chemistry	

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
<b>CORE: Mathematics</b>		18

MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 320	Linear Algebra and Differential Equations <sup>2</sup>	

*Additional CORE MATH electives from:*

MATH 415	Applied Dynamical Systems, Chaos and Modeling	
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MATH/STAT 431	Introduction to the Theory of Probability	
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MATH/ COMP SCI 513	Numerical Linear Algebra	
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MATH/ COMP SCI 514	Numerical Analysis	
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MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	
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<b>CORE Physics</b>		15
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PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	

*Additional CORE PHYSICS electives from:*

PHYSICS 321	Electric Circuits and Electronics	
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PHYSICS 325	Wave Motion and Optics	
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PHYSICS 415	Thermal Physics	
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PHYSICS 448	Atomic and Quantum Physics	
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PHYSICS 449	Atomic and Quantum Physics	
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<b>CORE Engineering</b>		21
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21 credits in Engineering courses approved by your AMEP Engineering advisor

**Laboratory Experience**<sup>3</sup>

PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	
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PHYSICS 308	Intermediate Laboratory-Electromagnetic Fields and Optics	
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PHYSICS 321	Electric Circuits and Electronics	
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PHYSICS 407	Advanced Laboratory	
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**Computational Experience**<sup>4</sup>

COMP SCI 310	Problem Solving Using Computers	
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COMP SCI 412	Introduction to Numerical Methods	
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MATH/ COMP SCI 513	Numerical Linear Algebra	
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MATH/ COMP SCI 514	Numerical Analysis	
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### RESIDENCE AND QUALITY OF WORK REQUIREMENT

Minimum 2.000 GPA in AMEP program courses

Minimum 2.000 GPA and 15 upper-level AMEP program credits, taken in residence<sup>5</sup>

15 credits in AMEP program courses, taken on the UW-Madison campus

## DISTINCTION IN THE MAJOR

Students earning an AMEP program GPA of 3.500 and higher will be nominated for Distinction in the Major.

- <sup>1</sup> M E 240 Dynamics substitutes for E M A 202 Dynamics
- <sup>2</sup> MATH 319 & MATH 340 *or* MATH 375-MATH 376 may substitute for MATH 320
- <sup>3</sup> Laboratory experience credits may double-count in Physics and/or Engineering CORE
- <sup>4</sup> Computational experience credits may double-count in Mathematics CORE
- <sup>5</sup> The following course numbers are considered upper level in AMEP.  
 MATH 300–699  
 PHYSICS 311–699  
 E C E 310–699  
 E M A 405–699  
 I S Y E 313–699  
 M E 303–699  
 Courses meeting CORE, Lab, and Computation that are numbered 300-699

## HONORS IN THE MAJOR

Honors in the Major is not available in Applied Math, Engineering and Physics.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will state, explain and apply principal theorems and techniques of applied mathematics, including (but not limited to) the subject areas of vector and complex calculus, linear algebra, and differential equations.
2. Students will state, explain and apply theory and methods of classical and modern physics such as mechanics (classical, statistical, quantum), electricity, magnetism, thermodynamics, radiation and atomic physics.

3. Students will develop strategies to synthesize applied mathematics and physical sciences to address engineering problems, with emphasis on problems of current interest.
4. Students will be able to design and conduct experiments to explore hypotheses regarding science and/or technology and/or engineering problems, and will use mathematics to help interpret experimental results.
5. Students will work in multidisciplinary groups of mathematicians, physical scientists, and engineers to formulate and solve STEM problems, which includes the creation and evaluation of models for natural phenomena.
6. Through written and oral presentations, students will communicate technical/scientific ideas and results to experts and non-experts.

## ADVISING AND CAREERS

For information about advising for the special Letters & Science degree program, students should refer to AMEP Advising (<https://www.math.wisc.edu/amep/advising>).

Students can also get questions answered about declaring the major and getting advising by contacting the Department of Mathematics at 608-263-2546.

## MATHEMATICS, B.A.

Mathematics is classified with both the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. Still an expanding subject, mathematics offers more new and challenging frontiers than at any time in its long history—with many new fields, requiring new techniques and ideas for exploration.

The place of mathematics among the sciences is well founded. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research.

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 914).

## HOW TO GET IN

### ACCEPTANCE

To be accepted as a major in mathematics a student must complete MATH 221 Calculus and Analytic Geometry 1, MATH 222 Calculus and Analytic Geometry 2, and MATH 234 Calculus--Functions of Several Variables with a grade point average of 2.500 or better in this sequence. However, a higher grade point average is advisable. Students should meet with a math advisor before declaring in order to discuss course selection and major plan. Majors are provided with math advisor information at the math advising page (<http://www.math.wisc.edu/undergraduate/advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall  
30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

There are two tracks: Option I or Option II. Both are flexible, so students should plan their programs with the advice of their math advisors. In particular, those following Option II **must** have their programs formally approved by their mathematics advisors.

#### OPTION I

The Option I package requires exposure to at least two areas of mathematics at the advanced undergraduate level. This package is best for students who have a broad interest in many areas of mathematics. Students interested in honors in the major should also choose this option.

The Option I major requires a minimum of seven mathematics courses numbered 307–699.<sup>1</sup>

Code	Title	Credits
<b>Linear Algebra</b>		
Select one of the following: <sup>1</sup>		
MATH 340	Elementary Matrix and Linear Algebra	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	

**Calculus, Topology, Algebra**

Select two of the following:

MATH 521	Analysis I	
MATH 541	Modern Algebra	
MATH 551	Elementary Topology	

**Additional Math 500 or higher**

Select one course from Math 500-679 (see course list A below)

Select additional courses to reach 7 courses in the major (see course list B below)

<sup>1</sup> Only one of these courses will count towards the major.**Course list A**

Code	Title	Credits
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3

MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3

**Course list B <sup>1</sup>**

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
MATH 331	An Introduction to Probability and Markov Chain Models	3
MATH 341	Linear Algebra	3
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 407	Topics in Mathematics Study Abroad	1-5
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization <sup>2</sup>	3
MATH/STAT 431	Introduction to the Theory of Probability	3
MATH/COMP SCI/ E C E 435	Introduction to Cryptography	3
MATH 441	Introduction to Modern Algebra	3
MATH 443	Applied Linear Algebra	3
MATH 461	College Geometry I	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics	3
MATH 491	Topics in Undergraduate Mathematics	3
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3

MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3
MATH 681	Senior Honors Thesis	3
MATH 682	Senior Honors Thesis	3
MATH 691	Undergraduate Thesis	2-4
MATH 692	Undergraduate Thesis	2-4

<sup>1</sup> There are two subgroups within this course list where only one course from each subgroup will count towards the major:

1. Differential Equations: MATH 319, MATH 376
2. Probability: MATH/STAT 309, MATH 331, MATH/STAT 431, STAT 311

<sup>2</sup> This course will only count if taken after Summer 2015.

## OPTION II

This option allows students to focus on mathematics associated to one specific area or application. Students interested in a focused mathematics program (i.e., actuary mathematics, elementary education, etc.) or a dual major program often choose this option.

### Mathematics Core

Code	Title	Credits
<b>Linear Algebra</b>		

Select one of the following:<sup>1</sup>

MATH 320	Linear Algebra and Differential Equations
MATH 340	Elementary Matrix and Linear Algebra
MATH 341	Linear Algebra
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra

### Advanced Courses

Select two courses from MATH 500 - 679 (see course list A below)

### Intermediate Courses

Select three courses from MATH 307- 692 (see course list B below)

<sup>1</sup> Only one of these courses will count towards the major.

### Course List A

Code	Title	Credits
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3

MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3

**Course List B<sup>1</sup>**

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
MATH 331	An Introduction to Probability and Markov Chain Models	3
MATH 340	Elementary Matrix and Linear Algebra	3
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 407	Topics in Mathematics Study Abroad	1-5
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH 421	The Theory of Single Variable Calculus	3
MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	3
MATH/STAT 431	Introduction to the Theory of Probability	3
MATH/COMP SCI/ E C E 435	Introduction to Cryptography	3
MATH 441	Introduction to Modern Algebra	3
MATH 443	Applied Linear Algebra	3
MATH 461	College Geometry I	3
MATH/CURRIC 471	Mathematics for Secondary School Teachers	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics	3
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3

MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3

- <sup>1</sup> There are two subgroups within this course list where only one course from each subgroup will count towards the major.
1. Differential Equations: MATH 319, MATH 376
  2. Probability: MATH/STAT 309, MATH 331, MATH/STAT 431, STAT 311

**Applied Concentration Area**

Select 4 courses from one of the concentrated areas. Note that math courses may fulfill the requirements in the concentration, but cannot count for the Intermediate Courses requirement listed above (p. 920).

**Students are strongly urged to consult their major advisor to develop an area of applied focus that is intellectually coherent.**

**Actuarial Mathematics**

Code	Title	Credits
ACT SCI/MATH 303	Theory of Interest and Life Insurance	3
ACT SCI 652	Loss Models I	3



Select two of the following:

ACT SCI 650	Actuarial Mathematics I	3
ACT SCI 651	Actuarial Mathematics II	3
or ACT SCI 653	Loss Models II	

### Astronomy

Code	Title	Credits
ASTRON 310	Stellar Astrophysics	3

Select three from the following:

ASTRON 320	The Interstellar Medium	3
or ASTRON 335	Cosmology	
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3
PHYSICS 551	Solid State Physics	3

### Atmospheric & Oceanic Studies

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	3
ATM OCN 330	Physics of the Atmosphere and Ocean I	3
PHYSICS 208	General Physics	5
or PHYSICS 248	A Modern Introduction to Physics	

### Bio-Informatics

Code	Title	Credits
B M I/COMP SCI 576	Introduction to Bioinformatics	3
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 400	Programming III	3
GENETICS 466	Principles of Genetics	3

### Bio-Statistics

Code	Title	Credits
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
STAT 575	Statistical Methods for Spatial Data	3
STAT/B M I 641	Statistical Methods for Clinical Trials	3
or STAT/ B M I 642	Statistical Methods for Epidemiology	
STAT/B M I 541	Introduction to Biostatistics	3

### Business (Operations Research)

Code	Title	Credits
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3

OTM 410	Operations Research I	3
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Select two from the following:

GEN BUS 301	Business Law	3
OTM 451	Service Operations Management	3
OTM 411	Operations Research II	3
OTM/I SY E/ MATH 633	Queuing Theory and Stochastic Modeling	3
OTM 654	Production Planning and Control	3

### Chemical Engineering

Code	Title	Credits
CBE/B M E 320	Introductory Transport Phenomena	4
CBE 326	Momentum and Heat Transfer Operations	3
CBE 426	Mass Transfer Operations	3
CBE 470	Process Dynamics and Control	3

### Chemistry

Code	Title	Credits
CHEM 327	Fundamentals of Analytical Science	4
or CHEM 329	Fundamentals of Analytical Science	
CHEM 561	Physical Chemistry	3
CHEM 562	Physical Chemistry	3
PHYSICS 208	General Physics	5

### Civil and Environmental Engineering

Code	Title	Credits
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 340	Structural Analysis I	4
Select one of the following:		
CIV ENGR 440	Structural Analysis II	3
CIV ENGR 442	Wood Structures I	3
CIV ENGR 445	Steel Structures I	3
CIV ENGR 447	Concrete Structures I	3

### Computer Sciences

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI/E C E 352	Digital System Fundamentals	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 412	Introduction to Numerical Methods	3
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	3
COMP SCI/MATH/ STAT 475	Introduction to Combinatorics	3
COMP SCI/ MATH 513	Numerical Linear Algebra	3
COMP SCI 520	Introduction to Theory of Computing	3
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	3
COMP SCI/E C E/ M E 532	Theory and Applications of Pattern Recognition	3
COMP SCI/E C E 533	Image Processing	3

COMP SCI 538	Introduction to the Theory and Design of Programming Languages	3
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI 545	Natural Language and Computing	3
COMP SCI 547	Computer Systems Modeling Fundamentals	3
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	3
COMP SCI 559	Computer Graphics	3
COMP SCI/B M I 576	Introduction to Bioinformatics	3
COMP SCI 577	Introduction to Algorithms	4

### Cryptography

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 400	Programming III	3
E C E/COMP SCI/ M E 532	Theory and Applications of Pattern Recognition	3-4
or COMP SCI 537	Introduction to Operating Systems	
E C E/MATH 641	Introduction to Error-Correcting Codes	3

### Ecology

Code	Title	Credits
COMP SCI 412	Introduction to Numerical Methods	3
ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/BOTANY/ F&W ECOL 460	General Ecology	4
ZOOLOGY 535	Ecosystem Analysis	3
ZOOLOGY/ ENTOM 540	Theoretical Ecology	3

### Economics, Version 1

Code	Title	Credits
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
Select two of the following:		
ECON 101	Principles of Microeconomics	4
or ECON 102	Principles of Macroeconomics	
or ECON 111	Principles of Economics-Accelerated Treatment	
ECON 410	Introductory Econometrics	4
ECON 468	Industrial Organization and Imperfect Competition	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 666	Issues in International Finance	3-4
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3

MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3

### Economics, Version 2

Code	Title	Credits
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
Select two of the following:		
ECON 410	Introductory Econometrics	4
ECON 468	Industrial Organization and Imperfect Competition	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 666	Issues in International Finance	3-4
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3

### Electrical and Computer Engineering

Code	Title	Credits
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4
E C E/COMP SCI 352	Digital System Fundamentals	3
Select one of the following:		
E C E/COMP SCI/ MATH 435	Introduction to Cryptography	3
E C E/N E/ PHYSICS 525	Introduction to Plasmas	3
E C E/COMP SCI 533	Image Processing	3

### Engineering Mechanics and Astronautics

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
E M A 303	Mechanics of Materials	3
E M A 542	Advanced Dynamics	3
or E M A 545	Mechanical Vibrations	

### Finance

Code	Title	Credits
ECON 310	Statistics: Measurement in Economics	4
ECON 410	Introductory Econometrics	4
FINANCE/ECON 300	Introduction to Finance	3
FINANCE/ECON 320	Investment Theory	3

### Forestry

Code	Title	Credits
F&W ECOL 300	Forest Biometry	4

F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
F&W ECOL 635	Forest Stand Dynamics	1-2

**Genetics**

Code	Title	Credits
GENETICS 466	Principles of Genetics	3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS/BOTANY/ MD GENET 629	Evolutionary Genetics	3

Select one of the following:

ZOOLOGY/ BIOLOGY 101	Animal Biology	3
or ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	

**Industrial Engineering**

Code	Title	Credits
I SY E 315	Production Planning and Control	3
I SY E 320	Simulation and Probabilistic Modeling	3
I SY E 321	Simulation Modeling Laboratory	1
I SY E/COMP SCI/ MATH 425	Introduction to Combinatorial Optimization	3
I SY E 516	Introduction to Decision Analysis	3
I SY E/COMP SCI/ MATH/STAT 525	Linear Programming Methods	3
I SY E/ COMP SCI 526	Advanced Linear Programming	3-4
I SY E/COMP SCI/ M E 558	Introduction to Computational Geometry	3
I SY E 575	Introduction to Quality Engineering	3
I SY E 615	Production Systems Control	3
I SY E/OTM 620	Simulation Modeling and Analysis	3
I SY E 624	Stochastic Modeling Techniques	3
I SY E/ COMP SCI 635	Tools and Environments for Optimization	3
I SY E/M E 643	Performance Analysis of Manufacturing Systems	3

**Mechanical Engineering**

Code	Title	Credits
M E 340	Introduction to Dynamic Systems	3
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
M E 364	Elementary Heat Transfer	3

**Metallurgical Engineering or Materials Sciences & Engineering**

Code	Title	Credits
M S & E 330	Thermodynamics of Materials	4
M S & E 331	Transport Phenomena in Materials	3
M S & E 351	Materials Science-Structure and Property Relations in Solids	3

**Nuclear Engineering and Engineering Physics**

Code	Title	Credits
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3
N E 408	Ionizing Radiation	3
N E 411	Nuclear Reactor Engineering	3

**Physics**

Code	Title	Credits
PHYSICS 311	Mechanics	3
PHYSICS 322	Electromagnetic Fields	3
Select two from the following:		
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3
PHYSICS 551	Solid State Physics	3

**Secondary Education**

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 400	Programming III	3
MATH/CURRIC 471	Mathematics for Secondary School Teachers	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5

**Statistics, Version 1**

Code	Title	Credits
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
Select two from the following:		
STAT 349	Introduction to Time Series	3
STAT 351	Introductory Nonparametric Statistics	3
STAT 411	An Introduction to Sample Survey Theory and Methods	3
STAT 421	Applied Categorical Data Analysis	3
STAT/B M I 641	Statistical Methods for Clinical Trials	3

**Statistics, Version 2**

Code	Title	Credits
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3

STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3

### Structural Biology

Code	Title	Credits
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
CHEM 327 or CHEM 329	Fundamentals of Analytical Science Fundamentals of Analytical Science	4
CHEM 561	Physical Chemistry	3
CHEM 562	Physical Chemistry	3

### Systems Biology

Code	Title	Credits
MATH 320 or BIOCHEM 501	Linear Algebra and Differential Equations Introduction to Biochemistry	3
CHEM 341 or CHEM 343	Elementary Organic Chemistry Introductory Organic Chemistry	3
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 624	Mechanisms of Enzyme Action	2
BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all MATH and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in MATH, taken on the UW–Madison campus

<sup>1</sup> MATH courses numbered 307–699 are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Mathematics Major in consultation with the Mathematics Honors advisor (<https://www.math.wisc.edu/undergraduate/advising>); this should be done by the start of the junior year.

## HONORS IN THE MATHEMATICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Mathematics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA

- Earn a 3.300 GPA for all MATH courses, and all courses accepted in the major
- Complete the following courses, with individual grades of B or better.

Code	Title	Credits
MATH 521	Analysis I (Taken for Honors)	
MATH 522	Analysis II (Taken for Honors)	
MATH 541	Modern Algebra (Taken for Honors)	
MATH 542	Modern Algebra (Taken for Honors)	

Select at least two more courses above 500, the following will usually be one of the courses: <sup>1</sup>

Code	Title	Credits
MATH 551	Elementary Topology	

Select one of the following Capstone projects: <sup>1</sup>

MATH 681 & MATH 682	Senior Honors Thesis and Senior Honors Thesis (For a total of 6 credits)	
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A sequence of two upper-level mathematics courses deemed acceptable by the Mathematics Honors advisor <sup>1</sup>

<sup>1</sup> Chosen in consultation with the Mathematics Honors advisor.

At least one of the two sequences (MATH 521 Analysis I–MATH 522 Analysis II or MATH 541 Modern Algebra–MATH 542 Modern Algebra) must be completed prior to enrollment in the Capstone project.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Students will be able to state, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas including at least one area of advanced undergraduate mathematics.
2. Students will be able to construct and evaluate mathematical proofs and arguments.
3. Students will acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
4. Students will use mathematics to model and analyze phenomena in other disciplines.

5. Students will be able to write, explain, and present mathematics to both experts and non-experts.

## ADVISING AND CAREERS

### ADVISING

Students who are interested in the math major should visit a faculty advisor. During the fall and spring semesters several faculty advisors have regular drop-in office hours. The current list of advisors and the schedule of the office hours can be found at the Math advising page (<https://www.math.wisc.edu/undergraduate/advising>). During the winter break and the summer semester there is no drop-in advising, students should contact one of the advisors to set up an appointment.

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement>) of the department.

### TRANSITION COURSES

Students are strongly recommended to include one of the following courses in their major program before moving into MATH 500 and higher.

Code	Title	Credits
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	

### GRADUATE STUDY

Students preparing for graduate work in mathematics should take the following courses:

Code	Title	Credits
MATH 341	Linear Algebra	3
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
or MATH 561	Differential Geometry	

Select at least two other courses at the 500 level or higher

Students who plan to enter a mathematics Ph.D. program should acquire a reading knowledge of at least one foreign language as early as possible. For mathematics study, the most useful languages are French, German, and Russian.

### CAREERS

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics,

including the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

## PEOPLE

### FACULTY

Professors Angenent, Arinkin, Assadi, Bolotin, Boston, Caldararu, Craciun, Denissov, Ellenberg, Feldman, Gong, Jin, Lempp, Mari-Beffa, Maxim, Miller, Mitchell, Paul, Roch, Seeger, Seppalainen, Smith, Terwilliger, Thiffeault, Valko, Viaclovsky, Waleffe, Yang.

Associate Professors Anderson, Gurevich, Stechmann, Street, Kent.

Assistant Professors Andrews, Dymarz, Erman, Kim, Marshall, Sam, Spagnolie, Stovall, Tran, B. Wang, L. Wang, M. Matchett Wood, P. Matchett Wood, Li.

### ACADEMIC STAFF

Anzaldo (Precalculus Coordinator), Benguria-Andrews (Calculus Coordinator), Hanhart (Associate Director of Undergraduate Studies), Kwon (Math 13X Coordinator), Malekpour (Director of the Instructional Excellence Program, WISCEL), Rivard (Placement and Enrollment Coordinator)

## MATHEMATICS, B.S.

Mathematics is classified with both the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. Still an expanding subject, mathematics offers more new and challenging frontiers than at any time in its long history—with many new fields, requiring new techniques and ideas for exploration.

The place of mathematics among the sciences is well founded. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research.

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 914).

## HOW TO GET IN

### ACCEPTANCE

To be accepted as a major in mathematics a student must complete MATH 221 Calculus and Analytic Geometry 1, MATH 222 Calculus and Analytic Geometry 2, and MATH 234 Calculus--Functions of Several Variables with a grade point average of 2.500 or better in this sequence. However, a higher grade point average is advisable. Students should meet with a math advisor before declaring in order to discuss course selection and major plan. Majors are provided with math advisor information at the math advising page (<http://www.math.wisc.edu/undergraduate/advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

There are two tracks: Option I or Option II. Both are flexible, so students should plan their programs with the advice of their math advisors. In particular, those following Option II **must** have their programs formally approved by their mathematics advisors.

#### OPTION I

The Option I package requires exposure to at least two areas of mathematics at the advanced undergraduate level. This package is best for students who have a broad interest in many areas of mathematics. Students interested in honors in the major should also choose this option.

The Option I major requires a minimum of seven mathematics courses numbered 307–699.<sup>1</sup>

Code	Title	Credits
<b>Linear Algebra</b>		
Select one of the following: <sup>1</sup>		
MATH 340	Elementary Matrix and Linear Algebra	
MATH 341	Linear Algebra	

MATH 375 Topics in Multi-Variable Calculus  
and Linear Algebra

### Calculus, Topology, Algebra

Select two of the following:

MATH 521 Analysis I

MATH 541 Modern Algebra

MATH 551 Elementary Topology

### Additional Math 500 or higher

Select one course from Math 500-679 (see course list A below)

Select additional courses to reach 7 courses in the major (see course list B below)

<sup>1</sup> Only one of these courses will count towards the major.

### Course list A

Code	Title	Credits
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3

MATH/I SY E/  
OTM 633 Queuing Theory and Stochastic  
Modeling 3

MATH 635 An Introduction to Brownian Motion  
and Stochastic Calculus 3

MATH/E C E 641 Introduction to Error-Correcting  
Codes 3

### Course list B <sup>1</sup>

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
MATH 331	An Introduction to Probability and Markov Chain Models	3
MATH 341	Linear Algebra	3
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 407	Topics in Mathematics Study Abroad	1-5
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization <sup>2</sup>	3
MATH/STAT 431	Introduction to the Theory of Probability	3
MATH/COMP SCI/ E C E 435	Introduction to Cryptography	3
MATH 441	Introduction to Modern Algebra	3
MATH 443	Applied Linear Algebra	3
MATH 461	College Geometry I	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics	3
MATH 491	Topics in Undergraduate Mathematics	3
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3

MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3
MATH 681	Senior Honors Thesis	3
MATH 682	Senior Honors Thesis	3
MATH 691	Undergraduate Thesis	2-4
MATH 692	Undergraduate Thesis	2-4

<sup>1</sup> There are two subgroups within this course list where only one course from each subgroup will count towards the major.

1. Differential Equations: MATH 319, MATH 376
2. Probability: MATH/STAT 309, MATH 331, MATH/STAT 431, STAT 311

<sup>2</sup> This course will only count if taken after Summer 2015.

## OPTION II

This option allows students to focus on mathematics associated to one specific area or application. Students interested in a focused mathematics program (i.e., actuary mathematics, elementary education, etc.) or a dual major program often choose this option.

### Mathematics Core

Code	Title	Credits
<b>Linear Algebra</b>		
Select one of the following: <sup>1</sup>		
MATH 320	Linear Algebra and Differential Equations	
MATH 340	Elementary Matrix and Linear Algebra	
MATH 341	Linear Algebra	

MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
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### Advanced Courses

Select two courses from MATH 500 - 679 (see course list A below)

### Intermediate Courses

Select three courses from MATH 307- 692 (see course list B below)

<sup>1</sup> Only one of these courses will count towards the major.

### Course List A

Code	Title	Credits
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3



MATH/E C E 641 Introduction to Error-Correcting Codes 3

### Course List B<sup>1</sup>

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
MATH 331	An Introduction to Probability and Markov Chain Models	3
MATH 340	Elementary Matrix and Linear Algebra	3
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 407	Topics in Mathematics Study Abroad	1-5
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH 421	The Theory of Single Variable Calculus	3
MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	3
MATH/STAT 431	Introduction to the Theory of Probability	3
MATH/COMP SCI/ E C E 435	Introduction to Cryptography	3
MATH 441	Introduction to Modern Algebra	3
MATH 443	Applied Linear Algebra	3
MATH 461	College Geometry I	3
MATH/CURRIC 471	Mathematics for Secondary School Teachers	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics	3
MATH/ COMP SCI 513	Numerical Linear Algebra	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 519	Ordinary Differential Equations	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH 531	Probability Theory	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

MATH 551	Elementary Topology	3
MATH 552	Elementary Geometric and Algebraic Topology	3
MATH 561	Differential Geometry	3
MATH 567	Elementary Number Theory	3
MATH 570	Fundamentals of Set Theory	3
MATH/PHILOS 571	Mathematical Logic	3
MATH 605	Stochastic Methods for Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
MATH 607	Topics in Mathematics Study Abroad	1-5
MATH 608	Mathematical Methods for Continuum Modeling in Biology	3
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	3
MATH 619	Analysis of Partial Differential Equations	3
MATH 621	Analysis III	3
MATH 623	Complex Analysis	3
MATH 627	Introduction to Fourier Analysis	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
MATH/I SY E/ OTM 633	Queuing Theory and Stochastic Modeling	3
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	3
MATH/E C E 641	Introduction to Error-Correcting Codes	3

- <sup>1</sup> There are two subgroups within this course list where only one course from each subgroup will count towards the major:
1. Differential Equations: MATH 319, MATH 376
  2. Probability: MATH/STAT 309, MATH 331, MATH/STAT 431, STAT 311

### Applied Concentration Area

Select 4 courses from one of the concentrated areas. Note that math courses may fulfill the requirements in the concentration, but cannot count for the Intermediate Courses requirement listed above (p. 929). **Students are strongly urged to consult their major advisor to develop an area of applied focus that is intellectually coherent.**

### Actuarial Mathematics

Code	Title	Credits
ACT SCI/MATH 303	Theory of Interest and Life Insurance	3
ACT SCI 652	Loss Models I	3
Select two of the following:		
ACT SCI 650	Actuarial Mathematics I	3
ACT SCI 651	Actuarial Mathematics II	3
or ACT SCI 653	Loss Models II	

**Astronomy**

Code	Title	Credits
ASTRON 310	Stellar Astrophysics	3
Select three from the following:		
ASTRON 320	The Interstellar Medium	3
or ASTRON 335	Cosmology	
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3
PHYSICS 551	Solid State Physics	3

**Atmospheric & Oceanic Studies**

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	3
ATM OCN 330	Physics of the Atmosphere and Ocean I	3
PHYSICS 208	General Physics	5
or PHYSICS 248	A Modern Introduction to Physics	

**Bio-Informatics**

Code	Title	Credits
B M I/COMP SCI 576	Introduction to Bioinformatics	3
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 400	Programming III	3
GENETICS 466	Principles of Genetics	3

**Bio-Statistics**

Code	Title	Credits
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
STAT 575	Statistical Methods for Spatial Data	3
STAT/B M I 641	Statistical Methods for Clinical Trials	3
or STAT/ B M I 642	Statistical Methods for Epidemiology	
STAT/B M I 541	Introduction to Biostatistics	3

**Business (Operations Research)**

Code	Title	Credits
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
OTM 410	Operations Research I	3
Select two from the following:		
GEN BUS 301	Business Law	3
OTM 451	Service Operations Management	3
OTM 411	Operations Research II	3

OTM/I SY E/ MATH 633	Queuing Theory and Stochastic Modeling	3
OTM 654	Production Planning and Control	3

**Chemical Engineering**

Code	Title	Credits
CBE/B M E 320	Introductory Transport Phenomena	4
CBE 326	Momentum and Heat Transfer Operations	3
CBE 426	Mass Transfer Operations	3
CBE 470	Process Dynamics and Control	3

**Chemistry**

Code	Title	Credits
CHEM 327	Fundamentals of Analytical Science	4
or CHEM 329	Fundamentals of Analytical Science	
CHEM 561	Physical Chemistry	3
CHEM 562	Physical Chemistry	3
PHYSICS 208	General Physics	5

**Civil and Environmental Engineering**

Code	Title	Credits
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 340	Structural Analysis I	4
Select one of the following:		
CIV ENGR 440	Structural Analysis II	3
CIV ENGR 442	Wood Structures I	3
CIV ENGR 445	Steel Structures I	3
CIV ENGR 447	Concrete Structures I	3

**Computer Sciences**

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI/E C E 352	Digital System Fundamentals	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 412	Introduction to Numerical Methods	3
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	3
COMP SCI/MATH/ STAT 475	Introduction to Combinatorics	3
COMP SCI/ MATH 513	Numerical Linear Algebra	3
COMP SCI 520	Introduction to Theory of Computing	3
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	3
COMP SCI/E C E/ M E 532	Theory and Applications of Pattern Recognition	3
COMP SCI/E C E 533	Image Processing	3
COMP SCI 538	Introduction to the Theory and Design of Programming Languages	3
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI 545	Natural Language and Computing	3
COMP SCI 547	Computer Systems Modeling Fundamentals	3

COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	3
COMP SCI 559	Computer Graphics	3
COMP SCI/B M I 576	Introduction to Bioinformatics	3
COMP SCI 577	Introduction to Algorithms	4

### Cryptography

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 367	Introduction to Data Structures	3
COMP SCI 400	Programming III	3
E C E/COMP SCI/ M E 532	Theory and Applications of Pattern Recognition	3-4
or COMP SCI 537	Introduction to Operating Systems	
E C E/MATH 641	Introduction to Error-Correcting Codes	3

### Ecology

Code	Title	Credits
COMP SCI 412	Introduction to Numerical Methods	3
ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/BOTANY/ F&W ECOL 460	General Ecology	4
ZOOLOGY 535	Ecosystem Analysis	3
ZOOLOGY/ ENTOM 540	Theoretical Ecology	3

### Economics, Version 1

Code	Title	Credits
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3

Select two of the following:

ECON 101 or ECON 102 or ECON 111	Principles of Microeconomics Principles of Macroeconomics Principles of Economics-Accelerated Treatment	4
ECON 410	Introductory Econometrics	4
ECON 468	Industrial Organization and Imperfect Competition	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 666	Issues in International Finance	3-4
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3

### Economics, Version 2

Code	Title	Credits
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4

Select two of the following:

ECON 410	Introductory Econometrics	4
ECON 468	Industrial Organization and Imperfect Competition	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 666	Issues in International Finance	3-4
MATH 415	Applied Dynamical Systems, Chaos and Modeling	3
MATH/COMP SCI/ I SY E/STAT 525	Linear Programming Methods	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3

### Electrical and Computer Engineering

Code	Title	Credits
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4
E C E/COMP SCI 352	Digital System Fundamentals	3
Select one of the following:		
E C E/COMP SCI/ MATH 435	Introduction to Cryptography	3
E C E/N E/ PHYSICS 525	Introduction to Plasmas	3
E C E/COMP SCI 533	Image Processing	3

### Engineering Mechanics and Astronautics

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
E M A 303	Mechanics of Materials	3
E M A 542 or E M A 545	Advanced Dynamics Mechanical Vibrations	3

### Finance

Code	Title	Credits
ECON 310	Statistics: Measurement in Economics	4
ECON 410	Introductory Econometrics	4
FINANCE/ECON 300	Introduction to Finance	3
FINANCE/ECON 320	Investment Theory	3

### Forestry

Code	Title	Credits
F&W ECOL 300	Forest Biometry	4
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
F&W ECOL 635	Forest Stand Dynamics	1-2

**Genetics**

Code	Title	Credits
GENETICS 466	Principles of Genetics	3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS/BOTANY/ MD GENET 629	Evolutionary Genetics	3
Select one of the following:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	3
or ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	

**Industrial Engineering**

Code	Title	Credits
I SY E 315	Production Planning and Control	3
I SY E 320	Simulation and Probabilistic Modeling	3
I SY E 321	Simulation Modeling Laboratory	1
I SY E/COMP SCI/ MATH 425	Introduction to Combinatorial Optimization	3
I SY E 516	Introduction to Decision Analysis	3
I SY E/COMP SCI/ MATH/STAT 525	Linear Programming Methods	3
I SY E/ COMP SCI 526	Advanced Linear Programming	3-4
I SY E/COMP SCI/ M E 558	Introduction to Computational Geometry	3
I SY E 575	Introduction to Quality Engineering	3
I SY E 615	Production Systems Control	3
I SY E/OTM 620	Simulation Modeling and Analysis	3
I SY E 624	Stochastic Modeling Techniques	3
I SY E/ COMP SCI 635	Tools and Environments for Optimization	3
I SY E/M E 643	Performance Analysis of Manufacturing Systems	3

**Mechanical Engineering**

Code	Title	Credits
M E 340	Introduction to Dynamic Systems	3
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
M E 364	Elementary Heat Transfer	3

**Metallurgical Engineering or Materials Sciences & Engineering**

Code	Title	Credits
M S & E 330	Thermodynamics of Materials	4
M S & E 331	Transport Phenomena in Materials	3
M S & E 351	Materials Science-Structure and Property Relations in Solids	3

**Nuclear Engineering an Engineering Physics**

Code	Title	Credits
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3

N E 408	Ionizing Radiation	3
N E 411	Nuclear Reactor Engineering	3

**Physics**

Code	Title	Credits
PHYSICS 311	Mechanics	3
PHYSICS 322	Electromagnetic Fields	3
Select two from the following:		
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3
PHYSICS 551	Solid State Physics	3

**Secondary Education**

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 302	Introduction to Programming	3
COMP SCI 400	Programming III	3
MATH/CURRIC 471	Mathematics for Secondary School Teachers	3
MATH/HIST SCI 473	History of Mathematics	3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	3
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5

**Statistics, Version 1**

Code	Title	Credits
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
Select two from the following:		
STAT 349	Introduction to Time Series	3
STAT 351	Introductory Nonparametric Statistics	3
STAT 411	An Introduction to Sample Survey Theory and Methods	3
STAT 421	Applied Categorical Data Analysis	3
STAT/B M I 641	Statistical Methods for Clinical Trials	3

**Statistics, Version 2**

Code	Title	Credits
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	3
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	3
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3

**Structural Biology**

Code	Title	Credits
MATH/B M I/ BIOCHEM/ BMOLCHEM 606	Mathematical Methods for Structural Biology	3
CHEM 327 or CHEM 329	Fundamentals of Analytical Science Fundamentals of Analytical Science	4
CHEM 561	Physical Chemistry	3
CHEM 562	Physical Chemistry	3

**Systems Biology**

Code	Title	Credits
MATH 320 or BIOCHEM 501	Linear Algebra and Differential Equations Introduction to Biochemistry	3
CHEM 341 or CHEM 343	Elementary Organic Chemistry Introductory Organic Chemistry	3
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 624	Mechanisms of Enzyme Action	2
BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3

**RESIDENCE AND QUALITY OF WORK**

2.000 GPA in all MATH and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in MATH, taken on the UW–Madison campus

<sup>1</sup> MATH courses numbered 307–699 are considered upper level in the major.

**HONORS IN THE MAJOR**

Students may declare Honors in the Mathematics Major in consultation with the Mathematics Honors advisor (<https://www.math.wisc.edu/undergraduate/advising>); this should be done by the start of the junior year.

**HONORS IN THE MATHEMATICS MAJOR REQUIREMENTS**

To earn a B.A. or B.S. with Honors in the Major in Mathematics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all MATH courses, and all courses accepted in the major
- Complete the following courses, with individual grades of B or better.

Code	Title	Credits
MATH 521	Analysis I (Taken for Honors)	
MATH 522	Analysis II (Taken for Honors)	
MATH 541	Modern Algebra (Taken for Honors)	
MATH 542	Modern Algebra (Taken for Honors)	
Select at least two more courses above 500, the following will usually be one of the courses: <sup>1</sup>		
MATH 551	Elementary Topology	
Select one of the following Capstone projects: <sup>1</sup>		
MATH 681 & MATH 682	Senior Honors Thesis and Senior Honors Thesis (For a total of 6 credits)	

A sequence of two upper-level mathematics courses deemed acceptable by the Mathematics Honors advisor <sup>1</sup>

<sup>1</sup> Chosen in consultation with the Mathematics Honors advisor.

At least one of the two sequences (MATH 521 Analysis I–MATH 522 Analysis II or MATH 541 Modern Algebra–MATH 542 Modern Algebra) must be completed prior to enrollment in the Capstone project.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

1. Students will be able to state, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas including at least one area of advanced undergraduate mathematics.
2. Students will be able to construct and evaluate mathematical proofs and arguments.
3. Students will acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
4. Students will use mathematics to model and analyze phenomena in other disciplines.
5. Students will be able to write, explain, and present mathematics to both experts and non-experts.

## ADVISING AND CAREERS

### ADVISING

Students who are interested in the math major should visit a faculty advisor. During the fall and spring semesters several faculty advisors have regular drop-in office hours. The current list of advisors and the schedule of the office hours can be found at the Math advising page (<https://www.math.wisc.edu/undergraduate/advising>). During the winter break and the summer semester there is no drop-in advising, students should contact one of the advisors to set up an appointment.

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement>) of the department.

### TRANSITION COURSES

Students are strongly recommended to include one of the following courses in their major program before moving into MATH 500 and higher.

Code	Title	Credits
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	

### GRADUATE STUDY

Students preparing for graduate work in mathematics should take the following courses:

Code	Title	Credits
MATH 341	Linear Algebra	3
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
or MATH 561	Differential Geometry	

Select at least two other courses at the 500 level or higher

Students who plan to enter a mathematics Ph.D. program should acquire a reading knowledge of at least one foreign language as early as possible. For mathematics study, the most useful languages are French, German, and Russian.

### CAREERS

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college

and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

## PEOPLE

### FACULTY

Professors Angenent, Arinkin, Assadi, Bolotin, Boston, Caldararu, Craciun, Denissov, Ellenberg, Feldman, Gong, Jin, Lempp, Mari-Beffa, Maxim, Miller, Mitchell, Paul, Roch, Seeger, Seppalainen, Smith, Terwilliger, Thiffeault, Valko, Viaclovsky, Waleffe, Yang.

Associate Professors Anderson, Gurevich, Stechmann, Street, Kent.

Assistant Professors Andrews, Dymarz, Erman, Kim, Marshall, Sam, Spagnolie, Stovall, Tran, B. Wang, L. Wang, M. Matchett Wood, P. Matchett Wood, Li.

### ACADEMIC STAFF

Anzaldo (Precalculus Coordinator), Benguria-Andrews (Calculus Coordinator), Hanhart (Associate Director of Undergraduate Studies), Kwon (Math 13X Coordinator), Malekpour (Director of the Instructional Excellence Program, WISCEL), Rivard (Placement and Enrollment Coordinator)

## MATHEMATICS, CERTIFICATE

The primary purpose of the mathematics certificate is to serve those students who wish to enhance their content knowledge in mathematics but are unable to complete the requirements of a second major.

### HOW TO GET IN

Students must meet with a math advisor before declaring in order to discuss course selection. Math advisor information is provided at the math advising page (<http://www.math.wisc.edu/undergraduate/advising>).

### REQUIREMENTS

#### 12 CREDITS OF MATHEMATICS, TO INCLUDE: <sup>1,2,3</sup>

- 3 credits MATH 400–699 (excluding MATH/CURRIC 471)
- 9 credits from MATH 307–699

- <sup>1</sup> Excluding MATH/CURRIC 471
- <sup>2</sup> Only one (1) course each from these groups may apply:  
 Linear Algebra: MATH 340, 341, 375  
 Differential Equations: MATH 319, 320, 376  
 Probability: MATH/STAT 309, MATH/STAT 431
- <sup>3</sup> Students with credit in MATH 275 cannot apply MATH 421 to the certificate.

#### RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

6 credits in the certificate, in residence

## ADVISING AND CAREERS

### ADVISING

Students who are interested in the mathematics certificate program should visit a faculty advisor. Doing the fall and spring semesters several faculty advisors have regular drop-in office hours. The current list of advisors and the schedule of the office hours can be found at the math advising page (<https://www.math.wisc.edu/undergraduate/advising>). During the winter break and the summer semester there is no drop-in advising, students should contact one of the advisors to set up an appointment.

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Assistant Professors Andrews, Dymarz, Erman, Kim, Marshall, Sam, Spagnolie, Stovall, Tran, B. Wang, L. Wang, M. Matchett Wood, P. Matchett Wood, Li.

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## MEAD WITTER SCHOOL OF MUSIC

The School of Music views its goals and objectives as complementary to those of the University of Wisconsin–Madison, which include “to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life.” The goals of an education in music are:

- competency in communication;
- competency in using the modes of thought characteristic in the art of music;
- awareness and perception of the musical art and its discipline;
- a knowledge of our basic cultural heritage;
- a thorough understanding of at least one area—creative, recreative, analytic, historical, or pedagogical.

The University of Wisconsin–Madison School of Music is accredited by the National Association of Schools of Music (NASM), and has been an institutional member of NASM since 1966.

## UNDERGRADUATE DEGREE PROGRAMS

The School of Music offers four principal degree options for the music major. All require a performance audition for admission.

**Bachelor of Music: Performance**, with concentration in Brass, Composition, Guitar, Harp, Jazz Studies, Organ, Percussion, Piano, Strings, Voice, or Woodwinds.

**Bachelor of Music: Music Education**, with certification in General and Instrumental Music (Early Childhood through Adolescence), or General and Vocal Music (Early Childhood through Adolescence).

**Bachelor of Arts or Bachelor of Science**, with a music major: options in performance, history, theory, or an individualized music curriculum. The individualized music curriculum can be designed with an emphasis in composition or jazz studies. The history and theory options are under review and may be changed. During this time, the School of Music is not admitting new students to these options.

## GRADES AND ADVISING

The School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic procedures is available in the College of Letters & Science section of this catalog and in the opening section of this catalog.

The undergraduate advisor of the School of Music serves as the advisor for every music major. The advisor maintains records and will assist students in determining an appropriate course schedule each semester. More information about advising at UW–Madison appears in the opening section of this catalog.

## FIRST-YEAR CORE CURRICULUM

Preliminary music students admitted to the School of Music without any previous transferable college coursework in music enroll for a core curriculum of music courses their first year that lays a basic foundation for later, more specialized study. Near the end of the first year, each student applies for a specific degree emphasis. During the first year, the student has opportunities to consider the program best suited to individual interests and needs. All preliminary School of Music students are assigned a classification of PRM.

## RECOMMENDED FIRST-SEMESTER CURRICULUM (TOTAL CREDITS = 14–16)

Code	Title	Credits
<b>Music Courses</b>		
	Performance study	2
	Music Theory	4
	Organizations (Band, Orchestra, or Choir; piano majors will enroll for Keyboard Skills class)	1-2
	Secondary piano (non-piano majors)	2
	Chamber Ensemble (for majors in brass, guitar, or percussion)	1-2
<b>Liberal Studies (College of Letters &amp; Science)</b>		
	Communication	0-3
	Quantitative Reasoning	0-4
	Breadth	0-8

## MUSIC COURSES FOR NONMUSIC MAJORS

A variety of courses in music theory, music history and literature, as well as orchestra, chorus, band, and some ensembles, are open to students from other departments, schools, and colleges. Students should review the specific regulations of their degree program to determine whether music courses can fulfill breadth requirements. The Course Guide (<http://public.my.wisc.edu/portal/render.userLayoutRootNode.up>) indicates music courses that are open to nonmusic majors.

Music Performance courses are generally filled by music majors. Fundamentals courses (007–036) are for instrumental music education majors only. Class Piano (101–104) is for music majors only. Basic courses require the ability to read music and to pass a prepared audition; in addition, Basic Guitar requires previous experience with classical guitar. Students outside the School of Music may audition to be on a waiting list for group or individual voice study with a teaching assistant (MUS PERF 143 Introduction to Performance: Voice or MUS PERF 144 Vocal Instruction for Non-Voice Majors). Contact the course instructor for more information about course requirements and admission criteria. The School of Music offers private music lessons (not for university credit and with separate costs) for nonmusic majors through the Community Music Lessons (<http://www.music.wisc.edu/CML>) program.

Regulation of music courses available for degree credit varies among the divisions of the university. Students should consult their major department for specific advice.

Courses open to nonmusic majors that satisfy the university's humanities breadth requirements:

Code	Title	Credits
MUSIC 101	The Musical Experience	3
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	2
MUSIC 104	Study Abroad: Elementary Music Appreciation/Theory/History	1-3
MUSIC 105	Opera	3
MUSIC 106	The Symphony	3
MUSIC 111	Elements of Music	3
MUSIC 113	Music in Performance	1
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC 204	Study Abroad: Intermediate Music Theory or History	1-3
MUSIC 205	The Big Bands	2
MUSIC 206	The Legendary Performers	2
MUSIC 305	Popular Music in the USA: 1920-1950	2
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	2
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	2
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	2

MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC 461	Collegium Musicum	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC/ AFROAMER 509	Seminar in Afro-American Music History and Criticism	3

## DEGREES/MAJORS/CERTIFICATES

- Music, B.A. (p. 937)
- Music, B.S. (p. 946)
- Music: Education, B.M. (p. 956)
- Music: Performance, B.M. (p. 968)

## PEOPLE

Professors Aley, Bartley, Blasius, Calderon, Chisholm, Cook, Crook, Davis, Dembski, Dill, Di Sanza, Doing, Earp, Fischer, Fulmer, Hyer, Jensen, Johnson, Jutt, Karp, Koza, Leckrone, Perry, Radano, Rowe, Schaffer, Schwendinger, Smith, Stowe, Swack, B. Taylor, C. Taylor, Teeple, Thimmig, Vardi

Associate Professors Dobbs, Hetzler, Vallon

Assistant Professors Grabois, Wallmann

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) (333 East Campus Mall #9701, Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

### SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision. Accompanying each award notification will be a Letter of Commitment, to



be signed and returned to the School of Music. Criteria used for awarding scholarships are:

1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.00 grade point average. Please see the School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## MUSIC, B.A.

The School of Music views its goals and objectives as complementary to those of the University of Wisconsin–Madison, which include “to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life.” The goals of an education in music are:

- competency in communication;
- competency in using the modes of thought characteristic in the art of music;
- awareness and perception of the musical art and its discipline;
- a knowledge of our basic cultural heritage;
- a thorough understanding of at least one area—creative, recreative, analytic, historical, or pedagogical.

The University of Wisconsin–Madison School of Music is accredited by the National Association of Schools of Music (NASM), and has been an institutional member of NASM since 1966.

## UNDERGRADUATE DEGREE PROGRAMS

The School of Music offers four principal degree options for the music major. All require a performance audition for admission.

**Bachelor of Music: Performance**, with concentration in Brass, Composition, Guitar, Harp, Jazz Studies, Organ, Percussion, Piano, Strings, Voice, or Woodwinds.

**Bachelor of Music: Music Education**, with certification in General and Instrumental Music (Early Childhood through Adolescence), or General and Vocal Music (Early Childhood through Adolescence).

**Bachelor of Arts or Bachelor of Science**, with a music major: options in performance, history, theory, or an individualized music curriculum. The individualized music curriculum can be designed with an emphasis in composition or jazz studies. The history and theory options are under review and may be changed. During this time, the School of Music is not admitting new students to these options.

## GRADES AND ADVISING

The School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic

procedures is available in the College of Letters & Science section of this catalog and in the opening section of this catalog.

The undergraduate advisor of the School of Music serves as the advisor for every music major. The advisor maintains records and will assist students in determining an appropriate course schedule each semester. More information about advising at UW–Madison appears in the opening section of this catalog.

## FIRST-YEAR CORE CURRICULUM

Preliminary music students admitted to the School of Music without any previous transferable college coursework in music enroll for a core curriculum of music courses their first year that lays a basic foundation for later, more specialized study. Near the end of the first year, each student applies for a specific degree emphasis. During the first year, the student has opportunities to consider the program best suited to individual interests and needs. All preliminary School of Music students are assigned a classification of PRM.

## RECOMMENDED FIRST-SEMESTER CURRICULUM (TOTAL CREDITS = 14–16)

Code	Title	Credits
<b>Music Courses</b>		
	Performance study	2
	Music Theory	4
	Organizations (Band, Orchestra, or Choir; piano majors will enroll for Keyboard Skills class)	1-2
	Secondary piano (non-piano majors)	2
	Chamber Ensemble (for majors in brass, guitar, or percussion)	1-2
<b>Liberal Studies (College of Letters &amp; Science)</b>		
	Communication	0-3
	Quantitative Reasoning	0-4
	Breadth	0-8

## MUSIC COURSES FOR NONMUSIC MAJORS

A variety of courses in music theory, music history and literature, as well as orchestra, chorus, band, and some ensembles, are open to students from other departments, schools, and colleges. Students should review the specific regulations of their degree program to determine whether music courses can fulfill breadth requirements. The Course Guide (<http://public.my.wisc.edu/portal/render.userLayoutRootNode.uP>) indicates music courses that are open to nonmusic majors.

Music Performance courses are generally filled by music majors. Fundamentals courses (007–036) are for instrumental music education majors only. Class Piano (101–104) is for music majors only. Basic courses require the ability to read music and to pass a prepared audition; in addition, Basic Guitar requires previous experience with classical guitar. Students outside the School of Music may audition to be on a waiting list for group or individual voice study with a teaching assistant (MUS PERF 143 Introduction to Performance: Voice or MUS PERF 144 Vocal Instruction for Non-Voice Majors). Contact the course instructor for more information about course requirements and admission criteria. The School of Music offers private music lessons (not for university credit and with separate costs) for nonmusic majors through the Community Music Lessons (<http://www.music.wisc.edu/CML>) program.

Regulation of music courses available for degree credit varies among the divisions of the university. Students should consult their major department for specific advice.

Courses open to nonmusic majors that satisfy the university's humanities breadth requirements:

Code	Title	Credits
MUSIC 101	The Musical Experience	3
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	2
MUSIC 104	Study Abroad: Elementary Music Appreciation/Theory/History	1-3
MUSIC 105	Opera	3
MUSIC 106	The Symphony	3
MUSIC 111	Elements of Music	3
MUSIC 113	Music in Performance	1
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC 204	Study Abroad: Intermediate Music Theory or History	1-3
MUSIC 205	The Big Bands	2
MUSIC 206	The Legendary Performers	2
MUSIC 305	Popular Music in the USA: 1920-1950	2
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	2
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	2
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	2
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC 461	Collegium Musicum	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC/ AFROAMER 509	Seminar in Afro-American Music History and Criticism	3

## HOW TO GET IN

### ADMISSIONS PROCEDURES

To become a candidate for a School of Music degree a student must be accepted by the UW–Madison Office of Admissions and Recruitment and by the School of Music Undergraduate Admissions Office, 3561H Mosse

Humanities. These are the specific steps for applying to the UW–Madison School of Music:

- Review the information available on the School of Music website (<http://www.music.wisc.edu>). Any questions may be directed to the School of Music Undergraduate Admissions Office.
- **Request an audition date** by submitting a completed School of Music application.
- Students who expect to need financial assistance should consult the Office of Student Financial Aid (<http://www.finaid.wisc.edu>).
- Prepare the appropriate repertoire and materials for the audition.
- Request that official transcripts be sent to the School of Music Undergraduate Admissions Office from all high schools and colleges attended. Request written recommendations from two people who can attest to the applicant's musical background and ability.
- Come to the campus for an audition, which includes a ten- to twenty-minute performance audition, music theory and piano placement examinations, and an introduction to School of Music faculty, students, and facilities.

### TRANSFER STUDENTS

Students who have earned more than 24 course credits at another college or university follow the same application and audition procedures described above. Upon acceptance by UW–Madison and the School of Music, credits for music courses taken at another institution are interpreted by the UW–Madison Office of Admissions and Recruitment simply as elective music credits. These course credits, as they appear on the transcript(s), will be reviewed during a conference with the advisor upon enrolling at UW–Madison. Transfer credit for music courses will be reviewed only after all placement and proficiency examinations in theory and piano have been taken at UW–Madison and syllabi for academic music courses have been submitted.

### REENTERING THE SCHOOL OF MUSIC

Students who were previously enrolled in the School of Music and UW–Madison who desire to reenter to seek an undergraduate degree should apply for reentry to both the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office (<http://www.music.wisc.edu>). An audition will be required in most cases.

### INTERNATIONAL STUDENTS

Students from foreign countries who seek admission to the university and the School of Music should contact International Student Services in addition to the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office.

### SPECIAL STUDENTS

Persons who are interested in courses offered by the School of Music but who are not working toward a UW–Madison degree should contact the Division of Continuing Studies, 21 North Park Street, Madison, WI 53715; 608-263-6960. Enrollment is limited in music courses, and priority is given to UW–Madison undergraduate degree candidates.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

## REQUIREMENTS FOR THE MAJOR

Four options are available under this program:

- Major in Music Performance
- Major in Music History
- Major in Music Theory
- Individualized Music Major

These music curricula are designed for students whose career goals require more flexibility in course selection than that afforded by the bachelor of music degree. This degree also makes it possible to combine a major in music with majors in other fields. All prospective B.A./B.S. music students must audition on an instrument or voice and be accepted into the School of Music at the music major level of performance study following normal admission procedures.

To be eligible to declare the major, students must maintain a minimum 2.000 GPA in the core academic music courses (theory and history) specified for their major option. Admission to and retention in the music history or music theory major option may require a higher GPA; see specific requirements for these programs. Enrollment in courses is limited; therefore, core academic music courses may be repeated only with permission of the area. Only one approved repeat per area will be calculated into the GPA for purposes of determining eligibility to declare a major in music.

Satisfactory academic progress in the degree is measured by the regulations of the College of Letters & Science. The music advisor maintains current records and advises the student on music course selection each semester. The music advisor can provide information on all degree requirements. However, the L&S academic deans are the final authority responsible for interpretation of L&S policy regarding B.A./B.S. degree requirements outside the major department. The music course requirements listed are subject to change.

### BACHELOR OF ARTS–MUSIC PERFORMANCE

Code	Title	Credits
<i>Music Courses in Performance Study</i>		
	Select major instrument or voice (200 level or above, with three semesters at the 400 level)	14
<i>Music Courses in Music Theory</i>		

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4	MUSIC 50	Concert Choir	1	
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4	MUSIC 52	Women's Chorus	1	
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4	MUSIC 53	Choral Union	1	
<i>Music Courses in Music History</i>			MUSIC 55	Masters' Singers	1	
MUSIC 211	Survey of the History of Western Music	3	MUSIC 56	Chorale	1	
MUSIC 212	Survey of the History of Western Music	3	MUSIC 58	Madrigal Singers	1	
Select one of the following:			MUSIC 61	Chamber Orchestra	1	
MUSIC 411	Survey of Music in the Middle Ages	3	MUSIC 62	University Symphony Orchestra	1	
MUSIC 412	Survey of Music in the Renaissance	3	MUSIC 211	Survey of the History of Western Music	3	
MUSIC 413	Survey of Music in the Baroque Era	3	MUSIC 212	Survey of the History of Western Music	3	
MUSIC 414	Survey of Music in the Classic Era	3	MUSIC 221	Musica Practica 3	3	
MUSIC 415	Survey of Music in the Romantic Era	3	MUSIC 222	Musica Practica 4	3	
MUSIC 416	Survey of Music in the Twentieth Century	3	MUSIC 256	University Opera	1-2	
MUSIC 419	Music in the United States	3	MUSIC 262	Jazz Ensemble	1	
MUSIC 511	Historical Performance Practices	3	MUSIC 265	Ensemble-Woodwind	1	
MUSIC 513	Survey of Opera	3	MUSIC 266	Black Music Ensemble	1	
<i>Music Courses in Organizations or Accompanying</i>			MUSIC 267	Ensemble-Brass	1	
Select as appropriate to the major performance area from the following (must enroll concurrently with each semester of private performance study):		7-9	MUSIC 268	Ensemble-Percussion	1	
MUSIC 40	Wind Ensemble	3	MUSIC 269	Ensemble-String	1	
MUSIC 41	Concert Band	3	MUSIC 270	Ensemble-Guitar	1	
MUSIC 50	Concert Choir	3	MUSIC 271	Musica Practica: Aural Skills 3	1	
MUSIC 52	Women's Chorus	3	MUSIC 272	Musica Practica: Aural Skills 4	1	
MUSIC 53	Choral Union	3	MUSIC 273	Contemporary Chamber Ensemble	1	
MUSIC 55	Masters' Singers	3	MUSIC 319	Topics in Music and Ethnicity in the United States	3	
MUSIC 56	Chorale	3	MUSIC 331	Jazz Improvisation	3	
MUSIC 58	Madrigal Singers	3	MUSIC 332	Jazz Improvisation	3	
MUSIC 59	University Chorus	3	MUSIC 340	Pedagogy	1-2	
MUSIC 61	Chamber Orchestra	3	MUSIC 345	Practicum in String Pedagogy	2	
MUSIC 62	University Symphony Orchestra	3	MUSIC 361	Non-Western Music Performance-Study Groups	1	
MUSIC 270	Ensemble-Guitar	3	MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3	
MUS PERF 251	Keyboard Skills	3	MUSIC/ FOLKLORE 401	Musical Cultures of the World	3	
MUS PERF 242	Accompanying	3	MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	
MUS PERF 342	Piano Accompanying Lab	3	MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3	
<i>Music Course in Piano</i>			MUSIC 411	Survey of Music in the Middle Ages	3	
MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	2	MUSIC 412	Survey of Music in the Renaissance	3	
Total Credits			44-46	MUSIC 413	Survey of Music in the Baroque Era	3
<b>All students must fulfill the L&amp;S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:</b>			MUSIC 414	Survey of Music in the Classic Era	3	
<b>Code</b>	<b>Title</b>	<b>Credits</b>	MUSIC 415	Survey of Music in the Romantic Era	3	
<b>Music (660) Courses</b>						
MUSIC 40	Wind Ensemble	1	MUSIC 416	Survey of Music in the Twentieth Century	3	
MUSIC 41	Concert Band	1	MUSIC 419	Music in the United States	3	
			MUSIC 461	Collegium Musicum	1	
			MUSIC 467	Language Diction for Singing I	2	
			MUSIC 468	Language Diction for Singing II	2	
			MUSIC 497	Special Topics in Music	1-3	

MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS–MUSIC HISTORY

All prospective undergraduate music majors must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. For students desiring to major in music history, subsequent private lessons are not required and may only be available as space permits in individual studios.

Students should talk with the MUSIC 211 Survey of the History of Western Music or MUSIC 212 Survey of the History of Western Music professor (whichever course they are enrolled in at the time) and/or the chair of the musicology area. In addition, they must notify the School of Music advisor of their plans.

Students must prepare the petition for admission during the semester in which they are taking the second music history survey course. They must also be completing or have already completed MUSIC 221 Musica Practica 3/MUSIC 271 Musica Practica: Aural Skills 3 and MUSIC 222 Musica Practica 4/MUSIC 272 Musica Practica: Aural Skills 4. The petition must consist of:

1. a written request to the chair of the musicology area outlining the reasons they wish to declare a major in music history and
2. a selection of papers and other written assignments completed for MUSIC 211, MUSIC 212, and other academic music courses.

All application materials must be submitted to the chair no later than the end of the semester they are completing the MUSIC 211–MUSIC 212 sequence. Applicants must also submit a campus copy of their transcript once final grades have posted.

Musicology faculty will consider the application at the next Area meeting. Applications submitted in May at the completion of MUSIC 212 will be reviewed in September. The Area will decide whether to admit students to the major on the basis of grades in MUSIC 211 and MUSIC 212, cumulative grade point average (GPA), samples of written prose, and letters of application. The admission decision is based on multiple factors, and there is no minimum GPA that will guarantee admission to the music history major. However, the Area does expect that a serious applicant would have attained minimum GPAs of 3.250 in the following areas:

1. MUSIC 211 and MUSIC 212;
2. other academic music courses;
3. the UW–Madison cumulative GPA.

As with admission to all majors within the School of Music, the Area has the final authority to accept or deny a petition for admission.

The Area will assign each admitted student a musicology faculty advisor for planning advanced work in the major and supervising the senior capstone paper.

Students may not take more than one advanced music history course following completion of MUSIC 211–MUSIC 212 pending acceptance to the major.

Students wishing to apply to the major after completion of MUSIC 211–MUSIC 212 and/or after completion of more than one advanced musicology course must submit an additional petition explaining why they are applying late. If a late applicant is admitted, the Area may choose to accept all, part, or none of the advanced-level work completed prior to acceptance to the major.

Students must earn a grade of C or better in each music course taken after formal admission to and declaration of the major.

Code	Title	Credits
<i>Music Courses in Music Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<i>Music Courses in Music History</i>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
<i>Music Courses in Advanced-level Music History</i>		
Select four of the following:		12
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/FOLKLORE 401	Musical Cultures of the World	
MUSIC/FOLKLORE 402	Musical Cultures of the World	
MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<i>Music Course for Senior Capstone Paper</i>		
MUSIC 499	Directed Study	3
<i>Music Elective Courses</i>		
Select 3 credits of music electives		3

<i>Music Course in Piano</i>		
MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	2

All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3

MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS–MUSIC THEORY OPTION

All prospective undergraduate music majors must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. For students desiring to major in music theory, subsequent private lessons are not required and may only be available as space permits in individual studios. All prospective majors in the School of Music must pass a placement examination before enrolling in MUSIC 121 Musica Practica 1/MUSIC 171 Musica Practica: Aural Skills 1. Contact the Undergraduate Music Office (5561 Mosse Humanities; 608-263-5986) for more information.

Students must complete MUSIC 121/MUSIC 171 and MUSIC 122 Musica Practica 2/MUSIC 172 Musica Practica: Aural Skills 2 before their petition to major in music theory can be considered but should apply no later than the semester after completing MUSIC 122/MUSIC 172. The petition must consist of:

1. a written request to the chair of the Music Theory Area outlining reasons for wanting to declare a major in music theory;
2. a selection of papers and other written assignments completed for MUSIC 121 and MUSIC 122.

The Area will decide whether to admit students to the major on the basis of grades in MUSIC 121/MUSIC 171 and MUSIC 122/MUSIC 172, cumulative grade point average (GPA), samples of written prose, and letters of application. The admission decision is based on multiple factors; no minimum GPA will guarantee admission to the music theory major. However, the Area does expect that a serious applicant would have attained a minimum GPA of 3.250 in the following areas:

1. MUSIC 121/MUSIC 171 and MUSIC 122/MUSIC 172;
2. other music courses;
3. UW–Madison cumulative GPA.

As with admission to all majors within the School of Music, the Area has the final authority to accept or deny a petition for admission. All majors will be assigned a faculty advisor within the Area. Students accepted to the music theory major will be eligible to formally declare the major after they have completed the second year of the core music curriculum with a high quality of work as described above. After formal declaration of the

major, students must maintain a grade of C or better in each subsequent music course taken.

Transfer students with sophomore standing or above who would like to petition for admission to the music theory major should submit:

1. a written request to the Area chair outlining reasons for wanting to declare a major in music theory;
2. a detailed description of previous coursework in music theory, including a dossier of course syllabi, assignments, examinations, etc.;
3. an unofficial transcript or other verification of course grades; and
4. samples of written prose, preferably from music courses.

Transfer students should contact the Area chair to discuss their own particular situations. Criteria for admission to and retention in the major are the same as outlined in the previous paragraph.

Code	Title	Credits
<i>Music Courses in Music Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<i>Music Courses in Advanced-level Music Theory</i>		
Select 6 credits at the 400 level or above		6
<i>Music Courses in Music History</i>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select two of the following:		6
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/FOLKLORE 401	Musical Cultures of the World	
MUSIC/FOLKLORE 402	Musical Cultures of the World	
MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	

*Music Course for Senior Capstone Paper*

MUSIC 499	Directed Study	3
<i>Music Electives Courses</i>		
Select 3 credits in music electives		3
<i>Music Course in Piano</i>		
MUS PERF 102	Beginning Class Piano (or pass proficiency exam; proficiency through the 104 level recommended)	2
Total Credits		42

**All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:**

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/FOLKLORE 401	Musical Cultures of the World	3

MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS—INDIVIDUALIZED MUSIC CURRICULUM

All prospective music students must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. Students are not admitted directly into the Individualized Music Curriculum but must complete at least three semesters of the core curriculum as a preliminary music student (PRM program) before applying for this option. The option is approved only rarely and is intended for those students whose desired area of emphasis in music does not fit into the framework of the performance, history, or theory options. However, the area of emphasis must be one that will utilize music courses currently offered; all courses used for the major must be School of Music courses. The Individualized Music Curriculum is planned and designed by the student in conjunction with a School of Music faculty member willing to act as the curricular advisor; the music advisor reviews the proposed curriculum for compliance with all School of Music and L&S requirements. The curriculum then must be approved by the appropriate Faculty Area Committee(s) and the Undergraduate Curriculum Committee. The Individualized Music Curriculum can be designed with an emphasis in composition. The core requirements are:

Code	Title	Credits
<i>Music Courses in Performance Study</i>		
Major Instrument or Voice (3 semesters at the 200 level or above)		6
<i>Music Courses in Music Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4

MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
<i>Music Courses in Music History</i>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select two from the following three categories:		6
Theory:		
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
History:		
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
Performance Study:		
200 level or above		
<i>Music Courses Music Emphasis</i>		
As approved by faculty committees		16
<i>Music Course in Piano</i>		
MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	2
Total Credits		44

All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3



MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## ADDITIONAL REQUIREMENTS

All music major programs in the B.S. degree require a minimum piano proficiency at the level of MUS PERF 102 Beginning Class Piano.

Students who complete Theory MUSIC 122 Musica Practica 2, MUSIC 221 Musica Practica 3, or MUSIC 222 Musica Practica 4 without having taken the earlier courses in the theory sequence, or who achieve advanced placement in theory through department examination, may not be required to complete the prerequisite courses in the theory sequence. However, no retroactive course credit will be granted. All students must complete at least 40 credits in School of Music coursework.

## HONORS IN THE MAJOR

The School of Music is reviewing its requirements for Honors in the Major. Current music majors may contact the undergraduate advisor for more information.

To earn Honors in any music major, students must satisfy the requirements below as well as all other requirements for their music degree and major.

- 6 credits of MUSIC 681 Senior Honors Thesis–MUSIC 682 Senior Honors Thesis
- 12 credits of honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.3 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.5 GPA in all music coursework and maintain a minimum 3.5 GPA in all music honors coursework.
- Engage a faculty member who will collaborate in planning the 12 credits of honors curriculum coursework; submit this plan to the undergraduate advisor. The course plan may change as students progress through their work.
- Prior to beginning work on the MUSIC 681–MUSIC 682 Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

## LEARNING OUTCOMES

1. Develop advanced levels of proficiency in solo, chamber and ensemble performance sufficient to enter music professions or graduate programs.
2. Understand, apply and synthesize foundational concepts of musical study in theory, history and pedagogy.
3. Demonstrate the ability to learn independently and to integrate knowledge across domains of research and applied studies.
4. Communicate verbally, in writing and through public performance, musical ideas and concepts.
5. Demonstrate ability to work collaboratively and professionally in multiple social and professional settings.

## ADVISING AND CAREERS

Undergraduate students—current music majors only—should consult the Music advisor Patti Atwood for help enrolling in courses and planning the completion of their degree. Students who are interested in majoring in music should consult Jared Jellison ([admissions@music.wisc.edu](mailto:admissions@music.wisc.edu); 608-263-5986; 5561 Humanities) in the admissions office. If you have questions about a scholarship that you are receiving from the School of Music, please contact Professor Janet Jensen, associate director for the School of Music.

## PEOPLE

Professors Aley, Bartley, Blasius, Calderon, Chisholm, Cook, Crook, Davis, Dembski, Dill, Di Sanza, Doing, Earp, Fischer, Fulmer, Hyer, Jensen, Johnson, Jutt, Karp, Koza, Leckrone, Perry, Radano, Rowe, Schaffer, Schwendinger, Smith, Stowe, Swack, B. Taylor, C. Taylor, Teeple, Thimmig, Vardi

Associate Professors Dobbs, Hetzler, Vallon

Assistant Professors Grabois, Wallmann

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) (333 East Campus Mall #9701, Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

### SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to

the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision. Accompanying each award notification will be a Letter of Commitment, to be signed and returned to the School of Music. Criteria used for awarding scholarships are:

1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.00 grade point average. Please see the School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## MUSIC, B.S.

The School of Music views its goals and objectives as complementary to those of the University of Wisconsin—Madison, which include "to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life." The goals of an education in music are:

- competency in communication;
- competency in using the modes of thought characteristic in the art of music;
- awareness and perception of the musical art and its discipline;
- a knowledge of our basic cultural heritage;
- a thorough understanding of at least one area—creative, recreative, analytic, historical, or pedagogical.

The University of Wisconsin—Madison School of Music is accredited by the National Association of Schools of Music (NASM), and has been an institutional member of NASM since 1966.

## UNDERGRADUATE DEGREE PROGRAMS

The School of Music offers four principal degree options for the music major. All require a performance audition for admission.

**Bachelor of Music: Performance**, with concentration in Brass, Composition, Guitar, Harp, Jazz Studies, Organ, Percussion, Piano, Strings, Voice, or Woodwinds.

**Bachelor of Music: Music Education**, with certification in General and Instrumental Music (Early Childhood through Adolescence), or General and Vocal Music (Early Childhood through Adolescence).

**Bachelor of Arts or Bachelor of Science**, with a music major: options in performance, history, theory, or an individualized music curriculum. The individualized music curriculum can be designed with an emphasis in composition or jazz studies. The history and theory options are under

review and may be changed. During this time, the School of Music is not admitting new students to these options.

## GRADES AND ADVISING

The School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic procedures is available in the College of Letters & Science section of this catalog and in the opening section of this catalog.

The undergraduate advisor of the School of Music serves as the advisor for every music major. The advisor maintains records and will assist students in determining an appropriate course schedule each semester. More information about advising at UW–Madison appears in the opening section of this catalog.

## FIRST-YEAR CORE CURRICULUM

Preliminary music students admitted to the School of Music without any previous transferable college coursework in music enroll for a core curriculum of music courses their first year that lays a basic foundation for later, more specialized study. Near the end of the first year, each student applies for a specific degree emphasis. During the first year, the student has opportunities to consider the program best suited to individual interests and needs. All preliminary School of Music students are assigned a classification of PRM.

### RECOMMENDED FIRST-SEMESTER CURRICULUM (TOTAL CREDITS = 14–16)

Code	Title	Credits
<b>Music Courses</b>		
	Performance study	2
	Music Theory	4
	Organizations (Band, Orchestra, or Choir; piano majors will enroll for Keyboard Skills class)	1-2
	Secondary piano (non-piano majors)	2
	Chamber Ensemble (for majors in brass, guitar, or percussion)	1-2
<b>Liberal Studies (College of Letters &amp; Science)</b>		
	Communication	0-3
	Quantitative Reasoning	0-4
	Breadth	0-8

## MUSIC COURSES FOR NONMUSIC MAJORS

A variety of courses in music theory, music history and literature, as well as orchestra, chorus, band, and some ensembles, are open to students from other departments, schools, and colleges. Students should review the specific regulations of their degree program to determine whether music courses can fulfill breadth requirements. The Course Guide (<http://public.my.wisc.edu/portal/render.userLayoutRootNode.uP>) indicates music courses that are open to nonmusic majors.

Music Performance courses are generally filled by music majors. Fundamentals courses (007–036) are for instrumental music education majors only. Class Piano (101–104) is for music majors only. Basic courses require the ability to read music and to pass a prepared audition; in addition, Basic Guitar requires previous experience with classical guitar. Students outside the School of Music may audition to be on a waiting list for group or individual voice study with a teaching assistant

(MUS PERF 143 Introduction to Performance: Voice or MUS PERF 144 Vocal Instruction for Non-Voice Majors). Contact the course instructor for more information about course requirements and admission criteria. The School of Music offers private music lessons (not for university credit and with separate costs) for nonmusic majors through the Community Music Lessons (<http://www.music.wisc.edu/CML>) program.

Regulation of music courses available for degree credit varies among the divisions of the university. Students should consult their major department for specific advice.

Courses open to nonmusic majors that satisfy the university's humanities breadth requirements:

Code	Title	Credits
MUSIC 101	The Musical Experience	3
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	2
MUSIC 104	Study Abroad: Elementary Music Appreciation/Theory/History	1-3
MUSIC 105	Opera	3
MUSIC 106	The Symphony	3
MUSIC 111	Elements of Music	3
MUSIC 113	Music in Performance	1
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC 204	Study Abroad: Intermediate Music Theory or History	1-3
MUSIC 205	The Big Bands	2
MUSIC 206	The Legendary Performers	2
MUSIC 305	Popular Music in the USA: 1920-1950	2
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	2
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	2
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	2
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC 461	Collegium Musicum	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC/ AFROAMER 509	Seminar in Afro-American Music History and Criticism	3

## HOW TO GET IN

### ADMISSIONS PROCEDURES

To become a candidate for a School of Music degree a student must be accepted by the UW–Madison Office of Admissions and Recruitment and by the School of Music Undergraduate Admissions Office, 3561H Mosse Humanities. These are the specific steps for applying to the UW–Madison School of Music:

- Review the information available on the School of Music website (<http://www.music.wisc.edu>). Any questions may be directed to the School of Music Undergraduate Admissions Office.
- **Request an audition date** by submitting a completed School of Music application.
- Students who expect to need financial assistance should consult the Office of Student Financial Aid (<http://www.finaid.wisc.edu>).
- Prepare the appropriate repertoire and materials for the audition.
- Request that official transcripts be sent to the School of Music Undergraduate Admissions Office from all high schools and colleges attended. Request written recommendations from two people who can attest to the applicant's musical background and ability.
- Come to the campus for an audition, which includes a ten- to twenty-minute performance audition, music theory and piano placement examinations, and an introduction to School of Music faculty, students, and facilities.

### TRANSFER STUDENTS

Students who have earned more than 24 course credits at another college or university follow the same application and audition procedures described above. Upon acceptance by UW–Madison and the School of Music, credits for music courses taken at another institution are interpreted by the UW–Madison Office of Admissions and Recruitment simply as elective music credits. These course credits, as they appear on the transcript(s), will be reviewed during a conference with the advisor upon enrolling at UW–Madison. Transfer credit for music courses will be reviewed only after all placement and proficiency examinations in theory and piano have been taken at UW–Madison and syllabi for academic music courses have been submitted.

### REENTERING THE SCHOOL OF MUSIC

Students who were previously enrolled in the School of Music and UW–Madison who desire to reenter to seek an undergraduate degree should apply for reentry to both the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office (<http://www.music.wisc.edu>). An audition will be required in most cases.

### INTERNATIONAL STUDENTS

Students from foreign countries who seek admission to the university and the School of Music should contact International Student Services in addition to the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office.

### SPECIAL STUDENTS

Persons who are interested in courses offered by the School of Music but who are not working toward a UW–Madison degree should contact the Division of Continuing Studies, 21 North Park Street, Madison, WI 53715; 608-263-6960. Enrollment is limited in music courses, and priority is given to UW–Madison undergraduate degree candidates.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

## REQUIREMENTS FOR THE MAJOR

Four options are available under this program:

- Major in Music Performance
- Major in Music History
- Major in Music Theory
- Individualized Music Major

These music curricula are designed for students whose career goals require more flexibility in course selection than that afforded by the bachelor of music degree. This degree also makes it possible to combine a major in music with majors in other fields. All prospective B.A./B.S. music students must audition on an instrument or voice and be accepted into the School of Music at the music major level of performance study following normal admission procedures.

To be eligible to declare the major, students must maintain a minimum 2.000 GPA in the core academic music courses (theory and history) specified for their major option. Admission to and retention in the music history or music theory major option may require a higher GPA; see specific requirements for these programs. Enrollment in courses is limited; therefore, core academic music courses may be repeated only with permission of the area. Only one approved repeat per area will be calculated into the GPA for purposes of determining eligibility to declare a major in music.

Satisfactory academic progress in the degree is measured by the regulations of the College of Letters & Science. The music advisor maintains current records and advises the student on music course selection each semester. The music advisor can provide information on all degree requirements. However, the L&S academic deans are the final authority responsible for interpretation of L&S policy regarding B.A./B.S. degree requirements outside the major department. The music course requirements listed are subject to change.

## BACHELOR OF ARTS–MUSIC PERFORMANCE

Code	Title	Credits
<i>Music Courses in Performance Study</i>		

Select major instrument or voice (200 level or above, with three semesters at the 400 level)	14
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### *Music Courses in Music Theory*

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
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MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
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MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
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### *Music Courses in Music History*

MUSIC 211	Survey of the History of Western Music	3
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MUSIC 212	Survey of the History of Western Music	3
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Select one of the following:	3
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MUSIC 411	Survey of Music in the Middle Ages
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MUSIC 412	Survey of Music in the Renaissance
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MUSIC 413	Survey of Music in the Baroque Era
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MUSIC 414	Survey of Music in the Classic Era
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MUSIC 415	Survey of Music in the Romantic Era
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MUSIC 416	Survey of Music in the Twentieth Century
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MUSIC 419	Music in the United States
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MUSIC 511	Historical Performance Practices
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MUSIC 513	Survey of Opera
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### *Music Courses in Organizations or Accompanying*

Select as appropriate to the major performance area from the following (must enroll concurrently with each semester of private performance study):	7-9
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MUSIC 40	Wind Ensemble
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MUSIC 41	Concert Band
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MUSIC 50	Concert Choir
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MUSIC 52	Women's Chorus
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MUSIC 53	Choral Union
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MUSIC 55	Masters' Singers
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MUSIC 56	Chorale
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MUSIC 58	Madrigal Singers
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MUSIC 59	University Chorus
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MUSIC 61	Chamber Orchestra
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MUSIC 62	University Symphony Orchestra
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MUSIC 270	Ensemble-Guitar
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MUS PERF 251	Keyboard Skills
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MUS PERF 242	Accompanying
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MUS PERF 342	Piano Accompanying Lab
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### *Music Course in Piano*

MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	2
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Total Credits	44-46
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**All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:**

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3

MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS—MUSIC HISTORY

All prospective undergraduate music majors must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. For students desiring to major in music history, subsequent private lessons are not required and may only be available as space permits in individual studios.

Students should talk with the MUSIC 211 Survey of the History of Western Music or MUSIC 212 Survey of the History of Western Music professor (whichever course they are enrolled in at the time) and/or the chair of the musicology area. In addition, they must notify the School of Music advisor of their plans.

Students must prepare the petition for admission during the semester in which they are taking the second music history survey course. They must also be completing or have already completed MUSIC 221 Musica Practica 3/MUSIC 271 Musica Practica: Aural Skills 3 and MUSIC 222 Musica Practica 4/MUSIC 272 Musica Practica: Aural Skills 4. The petition must consist of:

1. a written request to the chair of the musicology area outlining the reasons they wish to declare a major in music history and
2. a selection of papers and other written assignments completed for MUSIC 211, MUSIC 212, and other academic music courses.

All application materials must be submitted to the chair no later than the end of the semester they are completing the MUSIC 211–MUSIC 212 sequence. Applicants must also submit a campus copy of their transcript once final grades have posted.

Musicology faculty will consider the application at the next Area meeting. Applications submitted in May at the completion of MUSIC 212 will be reviewed in September. The Area will decide whether to admit students to the major on the basis of grades in MUSIC 211 and MUSIC 212, cumulative grade point average (GPA), samples of written prose, and letters of application. The admission decision is based on multiple factors, and there is no minimum GPA that will guarantee admission to the music history major. However, the Area does expect that a serious applicant would have attained minimum GPAs of 3.250 in the following areas:

1. MUSIC 211 and MUSIC 212;
2. other academic music courses;
3. the UW–Madison cumulative GPA.

As with admission to all majors within the School of Music, the Area has the final authority to accept or deny a petition for admission.

The Area will assign each admitted student a musicology faculty advisor for planning advanced work in the major and supervising the senior capstone paper.

Students may not take more than one advanced music history course following completion of MUSIC 211–MUSIC 212 pending acceptance to the major.

Students wishing to apply to the major after completion of MUSIC 211–MUSIC 212 and/or after completion of more than one advanced musicology course must submit an additional petition explaining why they are applying late. If a late applicant is admitted, the Area may choose to accept all, part, or none of the advanced-level work completed prior to acceptance to the major.

Students must earn a grade of C or better in each music course taken after formal admission to and declaration of the major.

Code	Title	Credits
<i>Music Courses in Music Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<i>Music Courses in Music History</i>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
<i>Music Courses in Advanced-level Music History</i>		
Select four of the following:		12
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/FOLKLORE 401	Musical Cultures of the World	
MUSIC/FOLKLORE 402	Musical Cultures of the World	
MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<i>Music Course for Senior Capstone Paper</i>		

MUSIC 499	Directed Study	3
<i>Music Elective Courses</i>		
Select 3 credits of music electives		3
<i>Music Course in Piano</i>		
MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	2

**All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:**

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/FOLKLORE 401	Musical Cultures of the World	3
MUSIC/FOLKLORE 402	Musical Cultures of the World	3

MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS–MUSIC THEORY OPTION

All prospective undergraduate music majors must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. For students desiring to major in music theory, subsequent private lessons are not required and may only be available as space permits in individual studios. All prospective majors in the School of Music must pass a placement examination before enrolling in MUSIC 121 Musica Practica 1/MUSIC 171 Musica Practica: Aural Skills 1. Contact the Undergraduate Music Office (5561 Mosse Humanities; 608-263-5986) for more information.

Students must complete MUSIC 121/MUSIC 171 and MUSIC 122 Musica Practica 2/MUSIC 172 Musica Practica: Aural Skills 2 before their petition to major in music theory can be considered but should apply no later than the semester after completing MUSIC 122/MUSIC 172. The petition must consist of:

1. a written request to the chair of the Music Theory Area outlining reasons for wanting to declare a major in music theory;
2. a selection of papers and other written assignments completed for MUSIC 121 and MUSIC 122.

The Area will decide whether to admit students to the major on the basis of grades in MUSIC 121/MUSIC 171 and MUSIC 122/MUSIC 172, cumulative grade point average (GPA), samples of written prose, and letters of application. The admission decision is based on multiple factors; no minimum GPA will guarantee admission to the music theory major. However, the Area does expect that a serious applicant would have attained a minimum GPA of 3.250 in the following areas:

1. MUSIC 121/MUSIC 171 and MUSIC 122/MUSIC 172;
2. other music courses;
3. UW–Madison cumulative GPA.

As with admission to all majors within the School of Music, the Area has the final authority to accept or deny a petition for admission. All majors will be assigned a faculty advisor within the Area. Students accepted to the music theory major will be eligible to formally declare the major after they have completed the second year of the core music curriculum with a high quality of work as described above. After formal declaration of the major, students must maintain a grade of C or better in each subsequent music course taken.

Transfer students with sophomore standing or above who would like to petition for admission to the music theory major should submit:

1. a written request to the Area chair outlining reasons for wanting to declare a major in music theory;
2. a detailed description of previous coursework in music theory, including a dossier of course syllabi, assignments, examinations, etc.;
3. an unofficial transcript or other verification of course grades; and
4. samples of written prose, preferably from music courses.

Transfer students should contact the Area chair to discuss their own particular situations. Criteria for admission to and retention in the major are the same as outlined in the previous paragraph.

Code	Title	Credits
<i>Music Courses in Music Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<i>Music Courses in Advanced-level Music Theory</i>		
Select 6 credits at the 400 level or above		6
<i>Music Courses in Music History</i>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select two of the following:		6
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	



MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<i>Music Course for Senior Capstone Paper</i>		
MUSIC 499	Directed Study	3
<i>Music Electives Courses</i>		
Select 3 credits in music electives		3
<i>Music Course in Piano</i>		
MUS PERF 102	Beginning Class Piano (or pass proficiency exam; proficiency through the 104 level recommended)	2
Total Credits		42

All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2

MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1
MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/FOLKLORE 401	Musical Cultures of the World	3
MUSIC/FOLKLORE 402	Musical Cultures of the World	3
MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
500 level and above		
<b>Music Performance (664)</b>		
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
400 level and above		

## BACHELOR OF ARTS-INDIVIDUALIZED MUSIC CURRICULUM

All prospective music students must audition on an instrument or voice and be accepted into the School of Music at the music major level (200 level) of performance study according to the School of Music's standard admission procedures. Students are not admitted directly into the Individualized Music Curriculum but must complete at least three semesters of the core curriculum as a preliminary music student (PRM program) before applying for this option. The option is approved only rarely and is intended for those students whose desired area of emphasis in music does not fit into the framework of the performance, history, or theory options. However, the area of emphasis must be one that will utilize music courses currently offered; all courses used for the major must be School of Music courses. The Individualized Music Curriculum is planned and designed by the student in conjunction with a School of Music faculty member willing to act as the curricular advisor; the music advisor reviews the proposed curriculum for compliance with all School of Music and L&S requirements. The curriculum then must be approved by the appropriate Faculty Area Committee(s) and the Undergraduate Curriculum Committee. The Individualized Music Curriculum can be designed with an emphasis in composition. The core requirements are:

Code	Title	Credits
<i>Music Courses in Performance Study</i>		

Major Instrument or Voice (3 semesters at the 200 level or above)	6	MUSIC 61	Chamber Orchestra	1
		MUSIC 62	University Symphony Orchestra	1
<i>Music Courses in Music Theory</i>		MUSIC 211	Survey of the History of Western Music	3
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	MUSIC 212	Survey of the History of Western Music	3
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	MUSIC 221	Musica Practica 3	3
		MUSIC 222	Musica Practica 4	3
<i>Music Courses in Music History</i>		MUSIC 256	University Opera	1-2
MUSIC 211	Survey of the History of Western Music	MUSIC 262	Jazz Ensemble	1
MUSIC 212	Survey of the History of Western Music	MUSIC 265	Ensemble-Woodwind	1
Select two from the following three categories:	6	MUSIC 266	Black Music Ensemble	1
Theory:		MUSIC 267	Ensemble-Brass	1
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	MUSIC 268	Ensemble-Percussion	1
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	MUSIC 269	Ensemble-String	1
History:		MUSIC 270	Ensemble-Guitar	1
MUSIC 411	Survey of Music in the Middle Ages	MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 412	Survey of Music in the Renaissance	MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 413	Survey of Music in the Baroque Era	MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 414	Survey of Music in the Classic Era	MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 415	Survey of Music in the Romantic Era	MUSIC 331	Jazz Improvisation	3
MUSIC 416	Survey of Music in the Twentieth Century	MUSIC 332	Jazz Improvisation	3
MUSIC 419	Music in the United States	MUSIC 340	Pedagogy	1-2
MUSIC 511	Historical Performance Practices	MUSIC 345	Practicum in String Pedagogy	2
MUSIC 513	Survey of Opera	MUSIC 361	Non-Western Music Performance-Study Groups	1
Performance Study:		MUSIC/AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
200 level or above		MUSIC/FOLKLORE 401	Musical Cultures of the World	3
<i>Music Courses Music Emphasis</i>		MUSIC/FOLKLORE 402	Musical Cultures of the World	3
As approved by faculty committees		MUSIC/FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
<i>Music Course in Piano</i>		MUSIC 411	Survey of Music in the Middle Ages	3
MUS PERF 102	Beginning Class Piano (or pass proficiency exam)	MUSIC 412	Survey of Music in the Renaissance	3
Total Credits	44	MUSIC 413	Survey of Music in the Baroque Era	3
		MUSIC 414	Survey of Music in the Classic Era	3
		MUSIC 415	Survey of Music in the Romantic Era	3
		MUSIC 416	Survey of Music in the Twentieth Century	3
		MUSIC 419	Music in the United States	3
		MUSIC 461	Collegium Musicum	1
		MUSIC 467	Language Diction for Singing I	2
		MUSIC 468	Language Diction for Singing II	2
		MUSIC 497	Special Topics in Music	1-3
		MUSIC 499	Directed Study	1-3
		500 level and above		
		<b>Music Performance (664)</b>		
		MUS PERF 342	Piano Accompanying Lab	1
		MUS PERF 347	Third Year Composition	3
		MUS PERF 348	Third Year Composition	3

All students must fulfill the L&S requirement of at least 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are:

Code	Title	Credits
<b>Music (660) Courses</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1

400 level and above

## ADDITIONAL REQUIREMENTS

All music major programs in the B.S. degree require a minimum piano proficiency at the level of MUS PERF 102 Beginning Class Piano.

Students who complete Theory MUSIC 122 Musica Practica 2, MUSIC 221 Musica Practica 3, or MUSIC 222 Musica Practica 4 without having taken the earlier courses in the theory sequence, or who achieve advanced placement in theory through department examination, may not be required to complete the prerequisite courses in the theory sequence. However, no retroactive course credit will be granted. All students must complete at least 40 credits in School of Music coursework.

## HONORS IN THE MAJOR

The School of Music is reviewing its requirements for Honors in the Major. Current music majors may contact the undergraduate advisor for more information.

To earn Honors in any music major, students must satisfy the requirements below as well as all other requirements for their music degree and major:

- 6 credits of MUSIC 681 Senior Honors Thesis–MUSIC 682 Senior Honors Thesis
- 12 credits of honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.3 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.5 GPA in all music coursework and maintain a minimum 3.5 GPA in all music honors coursework.
- Engage a faculty member who will collaborate in planning the 12 credits of honors curriculum coursework; submit this plan to the undergraduate advisor. The course plan may change as students progress through their work.
- Prior to beginning work on the MUSIC 681 –MUSIC 682 Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Develop advanced levels of proficiency in solo, chamber and ensemble performance sufficient to enter music professions or graduate programs.
2. Understand, apply and synthesize foundational concepts of musical study in theory, history and pedagogy.
3. Demonstrate the ability to learn independently and to integrate knowledge across domains of research and applied studies.
4. Communicate verbally, in writing and through public performance, musical ideas and concepts.
5. Demonstrate ability to work collaboratively and professionally in multiple social and professional settings.

## ADVISING AND CAREERS

Undergraduate students—current music majors only—should consult the Music advisor Patti Atwood for help enrolling in courses and planning the completion of their degree. Students who are interested in majoring in music should consult Jared Jellison (admissions@music.wisc.edu; 608-263-5986; 5561 Humanities) in the admissions office. If you have questions about a scholarship that you are receiving from the School of Music, please contact Professor Janet Jensen, associate director for the School of Music.

## PEOPLE

Professors Aley, Bartley, Blasius, Calderon, Chisholm, Cook, Crook, Davis, Dembski, Dill, Di Sanza, Doing, Earp, Fischer, Fulmer, Hyer, Jensen, Johnson, Jutt, Karp, Koza, Leckrone, Perry, Radano, Rowe, Schaffer, Schwendinger, Smith, Stowe, Swack, B. Taylor, C. Taylor, Teeple, Thimmig, Vardi

Associate Professors Dobbs, Hetzler, Vallon

Assistant Professors Grabois, Wallmann

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) (333 East Campus Mall #9701,

Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

## SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision.

Accompanying each award notification will be a Letter of Commitment, to be signed and returned to the School of Music. Criteria used for awarding scholarships are:

1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.00 grade point average. Please see the School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## MUSIC: EDUCATION, B.M.

The music education major consists of two certification programs; *General and Instrumental Music*, and *General and Vocal Music*. Students choose one of the program tracks and will, upon completion, receive licenses to teach in two areas at the Early Childhood through Adolescence level. Music Education is a program offered jointly by the School of Music and the School of Education. The Bachelor of Music: Education degree is conferred by the College of Letters & Science; teacher certification is earned through the School of Education.

The music education program was recently revised to:

- Award certification in two areas. Each graduate will receive certification in general music and also in vocal or instrumental music, thus increasing job marketability and better reflecting the current needs of K–12 schools. Graduates are certified to teach in elementary and secondary schools.
- Explore the relationships between popular culture and music education. Graduates will be prepared to teach multiple forms of musical literacy, not just the traditional band, orchestra and choral curriculum.
- Expand the number of musical styles studied in the curriculum. Students also participate in group performances that reflect the diverse array of musical activities in today's schools.
- Offer an introductory music education class to sophomores prior to admission into the program.
- Provide instruction and experiences so that graduates can teach in culturally responsive ways.

- Increase performance collaboration between students in the instrumental and vocal tracks.
- Create a more interdisciplinary program by requiring all music education students to complete a core set of courses.

Although these programs are designed with the goal of preparing teachers to work in K–12 schools, the programs also provide a good preparation for individuals seeking careers in continuing education or music education-related fields.

The student's primary performance area should be consistent with the chosen certification program. One or more additional performance areas may be required. Prospective music education majors must audition and be accepted into any additional performance areas at the music major level (200 level) of performance study prior to beginning the methods and practicum sequence. The School of Music cannot guarantee admission to additional performance areas, nor can it guarantee that appropriate substitute course work will be available. The School of Music expects students admitted to its programs to complete all subsequent performance study at UW–Madison.

Students interested in music education should consult with the major advisor as soon as possible and at least once a semester while completing the program.

## HOW TO GET IN

### ADMISSION INTO THE SCHOOL OF MUSIC

To become a candidate for a School of Music degree, a student must first be accepted by the UW–Madison Office of Admissions and Recruitment and by the School of Music Undergraduate Admissions Office, 3561H Mosse Humanities. These are the specific steps for applying to the UW–Madison School of Music:

- Review the information available on the School of Music website (<http://www.music.wisc.edu>). Any questions may be directed to the School of Music Undergraduate Admissions Office.
- **Request an audition date** by submitting a completed School of Music application.
- Students who expect to need financial assistance should consult the Office of Student Financial Aid (<http://www.finaid.wisc.edu>).
- Prepare the appropriate repertoire and materials for the audition.
- Request that official transcripts be sent to the School of Music Undergraduate Admissions Office from all high schools and colleges attended. Request written recommendations from two people who can attest to the applicant's musical background and ability.
- Come to the campus for an audition, which includes a ten- to twenty-minute performance audition, music theory and piano placement examinations, and an introduction to School of Music faculty, students, and facilities.

### TRANSFER STUDENTS

Students who have earned more than 24 course credits at another college or university follow the same application and audition procedures described above. Upon acceptance by UW–Madison and the School of Music, credits for music courses taken at another institution are interpreted by the UW–Madison Office of Admissions and Recruitment simply as elective music credits. These course credits, as they appear on the transcript(s), will be reviewed during a conference with the advisor upon enrolling at UW–Madison. Transfer credit for music courses will be

reviewed only after all placement and proficiency examinations in theory and piano have been taken at UW–Madison and syllabi for academic music courses have been submitted.

## REENTERING THE SCHOOL OF MUSIC

Students who were previously enrolled in the School of Music and UW–Madison who desire to reenter to seek an undergraduate degree should apply for reentry to both the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office (<http://www.music.wisc.edu>). An audition will be required in most cases.

## INTERNATIONAL STUDENTS

Students from foreign countries who seek admission to the university and the School of Music should contact International Student Services in addition to the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office.

## SPECIAL STUDENTS

Persons who are interested in courses offered by the School of Music but who are not working toward a UW–Madison degree should contact the Division of Continuing Studies, 21 North Park Street, Madison, WI 53715; 608/263-6960. Enrollment is limited in music courses, and priority is given to UW–Madison undergraduate degree candidates.

## APPLYING TO THE MUSIC EDUCATION PROGRAM

During the second year in the core music curriculum, each student will sign up for an audition/interview with the music education faculty. The audition includes, but is not limited to, performance, sight-singing, and keyboard harmonization components. Minimum admission eligibility GPA requirements are:

- 2.5 in music theory and history courses

Code	Title	Credits
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3

- 3.0 in all music courses
- 2.75 cumulative (all courses)

The number of students admitted to the music education program is contingent upon available space; enrollment limits may be necessary to ensure that students have reasonable and timely access to required School of Music courses.

Students who successfully pass the audition/interview process and are offered admission must complete the following steps to complete their admission into the program:

- Submit a teacher certification program application with the School of Education. Include the completed program application form(s), transcripts, and all other related application materials specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.
- Complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- Submit a major declaration form to the School of Music. Students admitted into the music education certification program will thereafter enroll jointly with the School of Music (College of Letters and Science) and the School of Education.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General Education	Requirements
Breadth—Humanities/Literature/Arts	6 credits
Breadth—Natural Science	4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
Breadth—Social Studies	3 credits
Communication Part A & Part B *	
Ethnic Studies *	
Quantitative Reasoning Part A & Part B *	

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEPTH REQUIREMENTS, BACHELOR OF MUSIC (B.M.): EDUCATION

Certain requirements of the College of Letters & Science are required for all undergraduate degrees. They include:

1. All students must take one 3-credit course that satisfies the L&S **ethnic studies requirement**.

2. General Education Requirements (p. 17) (Communication Parts A and B, Quantitative Reasoning Parts A and B, Natural Science, Humanities/Literature/Arts, Social Studies, Ethnic Studies) must be met either by testing or by taking the appropriate course work.

3. All students must fulfill the **L&S requirement of at least 15 credits of upper-level work in the major completed in residence**. Courses that count toward this requirement are:

### Music courses:

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Women's Chorus	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 256	University Opera	1-2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC 273	Contemporary Chamber Ensemble	1
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 361	Non-Western Music Performance-Study Groups	1

MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	3
MUSIC/ FOLKLORE 401	Musical Cultures of the World	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
MUSIC 500	Seminar in Global Popular Music	3
MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC/ AFROAMER 509	Seminar in Afro-American Music History and Criticism	3
MUSIC 511	Historical Performance Practices	3
MUSIC 513	Survey of Opera	3
MUSIC/ FOLKLORE 515	Proseminar in Ethnomusicology	3
MUSIC 523	Orchestration I	3
MUSIC 524	Orchestration II	3
MUSIC/ FOLKLORE 535	American Folk and Vernacular Music	3
MUSIC/ANTHRO/ FOLKLORE/ THEATRE 539	The Folklore of Festivals and Celebrations	3
MUSIC 540	Advanced Pedagogy	2
MUSIC 541	Seminar in Choral Literature	2
MUSIC 542	Choral Literature and Performance Practices of Today	2
MUSIC 543	Advanced String Pedagogy	2
MUSIC 544	Advanced String Pedagogy	2
MUSIC 545	Practicum in Advanced String Pedagogy	2
MUSIC 546	String Literature	2
MUSIC 548	Piano Pedagogy II	3
MUSIC 550	Percussion Literature	2
MUSIC 551	Class Piano Pedagogy	3
MUSIC 553	Advanced Conducting Seminar	2
MUSIC 554	Advanced Conducting	2
MUSIC 556	University Opera	1-2
MUSIC 557	Opera Workshop	2
MUSIC 558	Madrigal Singers	1

MUSIC 559	Graduate Choral Union	1
MUSIC 560	Practicum in Advanced Studio Teaching-Piano	1
MUSIC 561	Advanced Ensemble-Piano	1
MUSIC 562	Jazz Ensemble	1
MUSIC 565	Advanced Ensemble-Woodwind	1
MUSIC 567	Advanced Ensemble-Brass	1
MUSIC 568	Advanced Ensemble-Percussion	1
MUSIC 569	Advanced Ensemble-String	1
MUSIC 570	University Symphony Orchestra	1
MUSIC 571	Chamber Orchestra	1
MUSIC 572	Advanced Ensemble-Classical Guitar	1
MUSIC 573	Contemporary Chamber Ensemble	1
MUSIC 574	Wind Ensemble	1
MUSIC 576	Concert Band	1
MUSIC 577	Chorale	1
MUSIC 578	Concert Choir	1
MUSIC 579	Masters Singers	1
MUSIC 59	University Chorus	1
MUSIC 591	Organ Literature and Design	2
MUSIC 60	All-University String Orchestra	1
MUSIC/L I S 619	Music Research Methods and Materials	3
MUSIC 620	Proseminar in Musicology	3
MUSIC 621	Renaissance Polyphony	3
MUSIC 622	Baroque Counterpoint	3
MUSIC 623	Form and Analysis	2-3
MUSIC 624	Form and Analysis II	2-3
MUSIC 681	Senior Honors Thesis	3
MUSIC 682	Senior Honors Thesis	3

**Music Performance:**

Code	Title	Credits
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4
MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4

MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced String Bass	2-4
MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2
MUS PERF 501	Masters Level-Piano	4
MUS PERF 503	Masters Level-Organ	4
MUS PERF 505	Masters Level-Voice	4
MUS PERF 507	Masters Level-Flute	4
MUS PERF 509	Masters Level-Oboe	4
MUS PERF 511	Masters Level-Clarinet	4
MUS PERF 513	Masters Level-Saxophone	4
MUS PERF 515	Masters Level-Bassoon	4
MUS PERF 517	Masters Level-Horn	4
MUS PERF 519	Masters Level-Trumpet	4
MUS PERF 521	Masters Level-Trombone	4
MUS PERF 523	Masters Level-Euphonium	4
MUS PERF 525	Masters Level-Tuba	4
MUS PERF 527	Masters Level-Percussion	4
MUS PERF 531	Masters Level-Violin	4
MUS PERF 532	Advanced Conducting	3-4
MUS PERF 533	Masters Level-Viola	4
MUS PERF 535	Masters Level-Cello	4
MUS PERF 540	Masters Level-Guitar	4
MUS PERF 542	Advanced Accompanying	2-3
MUS PERF 547	Masters Level Composition	3
MUS PERF 548	Masters Level Composition	3
MUS PERF 561	Organ Improvisation and Liturgy	2
MUS PERF 562	Organ Improvisation and Liturgy	2

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

Music education students complete the School of Education's liberal studies (i.e., breadth) requirements (p. 1234). A limited number of music, art and dance credits may be applied toward this 40-credit requirement.

## CHOOSING A MUSIC EDUCATION TRACK

The music education major consists of two certification program tracks, each leading to certification at both the elementary and secondary levels. Students choose to complete the certification program in either *General and Instrumental Music* or *General and Vocal Music*. The Bachelor of Music: Education degree requires a minimum of 130 credits.

# REQUIREMENTS FOR THE MAJOR: GENERAL AND INSTRUMENTAL CERTIFICATION TRACK

## MUSIC CORE

Code	Title	Credits
<b>Performance Study</b>		
Major Instrument		
Select one of the following:		14-22
Band or orchestral instrument through three semesters (400 level)		
Piano or Guitar through three semesters (400 level) and four semesters of band or orchestral instrument		
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Amer-European Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Global Music Cultures</b>		
Select 5 credits from the following:		5
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	

MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 405	Seminar: Cultural Study of Music	
<b>Piano</b>		
Complete MUS PERF 104 level of piano or pass a proficiency exam		0-8
<b>Organizations</b>		
Complete six semesters of band or orchestra as appropriate to the major instrument		
Select from the following:		6
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
<b>Ensembles</b>		
Select two semesters in one ensemble from the following:		2
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion (Lab 2 - percussion majors only)	
MUSIC 361	Non-Western Music Performance-Study Groups	
<b>Jazz</b>		
MUS PERF 108 or MUSIC 331	Jazz Class Piano or Jazz Improvisation	2
<b>Conducting</b>		
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
<b>Instrumental Fundamentals</b>		
Minimum of one semester each from brass, percussion, strings, woodwinds, remainder as advised		7
<b>Voice Fundamentals</b>		
MUS PERF 143 or MUS PERF 144	Introduction to Performance: Voice or Vocal Instruction for Non-Voice Majors	1
<b>Dance</b>		
Select a Dance course that pairs movement and music. ( <a href="http://guide.wisc.edu/courses/dance">http://guide.wisc.edu/courses/dance</a> )		1
<b>PROFESSIONAL EDUCATION REQUIREMENTS</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Educational Foundations</b>		
Human Development		
Select one of the following:		3
ED PSYCH 320	Human Development in Infancy and Childhood	



ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
<b>Learning</b>		
ED PSYCH 301	How People Learn	3
Foundations of the Profession		
Select one of the following: 3		
ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education	
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
<b>Music Education Courses</b>		
CURRIC/MUSIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2
CURRIC/MUSIC 420	Teaching Popular Instrumental Music 1	1
CURRIC/MUSIC 421	Teaching Popular Instrumental Music 2	1
<b>Music Education Professional Sequence</b> 9		
CURRIC/MUSIC 300	Introduction to Music Education	
CURRIC/MUSIC 303	Fieldwork in Music Communities	
CURRIC/MUSIC 301	Music Learning and Teaching 1	
CURRIC/MUSIC 337	Practicum in Teaching Music	
CURRIC/MUSIC 302	Music Learning and Teaching 2	
CURRIC/MUSIC 337	Practicum in Teaching Music	
<b>Student Teaching</b>		
Select one of the following: 12		
CURRIC/ MUSIC 410	Student Teaching in General and Instrumental Music	
CURRIC 466 & CURRIC 467	Student Teaching in Music-Elementary and Student Teaching in Music-Secondary	

## REQUIREMENTS FOR THE MAJOR: GENERAL AND VOCAL CERTIFICATION TRACK

### MUSIC CORE

Code	Title	Credits
<b>Performance Study</b>		
Select one of the following: 14-26		
Voice through three semesters (400 level) and completion of, or proficiency in, piano through 104 level		

Piano or Guitar through three semesters (400 level) and Voice through two semesters (400 level)		
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Amer-European Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following: 3		
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Global Music Cultures</b>		
Select 5 credits from the following: 5		
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
MUSIC 405	Seminar: Cultural Study of Music	
<b>Organizations</b>		
Select 6 credits of Concert Choir, Chorale, or Madrigal Singers from the following: 6		

MUSIC 50	Concert Choir	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
<b>Ensembles</b>		
Select two semesters in one ensemble from the following:		2
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 361	Non-Western Music Performance-Study Groups	
<b>Jazz</b>		
MUS PERF 108 or MUSIC 331	Jazz Class Piano Jazz Improvisation	2
<b>Conducting</b>		
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
<b>Diction</b>		
MUSIC 466	Diction for Singers	2
<b>Dance</b>		
Select a Dance course that pairs movement with music ( <a href="http://guide.wisc.edu/courses/dance">http://guide.wisc.edu/courses/dance</a> )		1

## PROFESSIONAL EDUCATION REQUIREMENTS

Code	Title	Credits
<b>Educational Foundations</b>		
Human Development		
Select one of the following:		3
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
Learning		
ED PSYCH 301	How People Learn	3
Foundations of the Profession		
Select one of the following:		3
ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education	
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
<b>Music Education Courses</b>		
CURRIC/MUSIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2
CURRIC/MUSIC 420	Teaching Popular Instrumental Music 1	1
CURRIC/MUSIC 421	Teaching Popular Instrumental Music 2	1
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1
<b>Music Education Professional Sequence</b>		9

CURRIC/MUSIC 300	Introduction to Music Education	
CURRIC/MUSIC 303	Fieldwork in Music Communities	
CURRIC/MUSIC 301	Music Learning and Teaching 1	
CURRIC/MUSIC 337	Practicum in Teaching Music	
CURRIC/MUSIC 302	Music Learning and Teaching 2	
CURRIC/MUSIC 337	Practicum in Teaching Music	
<b>Student Teaching</b>		
Select one of the following:		12
CURRIC/MUSIC 409	Student Teaching in General and Vocal Music	
CURRIC 466 & CURRIC 467	Student Teaching in Music-Elementary and Student Teaching in Music-Secondary	

## CONTINUATION REQUIREMENTS

In addition to meeting all course-related standards, students must receive a grade of B or higher in all music education practicum courses, and a grade of C or higher in all applicable music education methods courses (i.e., CURRIC/MUSIC 300 Introduction to Music Education/, CURRIC/MUSIC 301 Music Learning and Teaching 1/, CURRIC/MUSIC 302 Music Learning and Teaching 2/) in order to continue in the program.

## HONORS IN THE MAJOR

The School of Music is reviewing its requirements for Honors in the Major. Current music majors may contact the undergraduate advisor for more information.

To earn honors in any music major, students must satisfy the requirements below as well as all other requirements for their music degree and major.

- 6 credits of MUSIC 681 Senior Honors Thesis–MUSIC 682 Senior Honors Thesis
- 12 credits of honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.3 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.5 GPA in all music coursework and maintain a minimum 3.5 GPA in all music honors coursework.
- Engage a faculty member who will collaborate in planning the 12 credits of honors curriculum coursework; submit this plan to the undergraduate advisor. The course plan may change as students progress through their work.
- Prior to beginning work on the MUSIC 681–MUSIC 682 Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who

may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

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

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. For example, all individuals seeking an initial Wisconsin state teacher’s license after August 31, 2004, are required to take and pass an approved content examination in the subject area(s) of interest.

These tests, the Praxis II: Subject Assessments/Specialty Area Tests, are offered through the Educational Testing Service (ETS). Teacher education student at UW-Madison must take and pass the exam for their program area(s) and submit scores to Education Academic Services before entering their final, full-time student teaching semester.

All graduating student teachers are also required by the School of Education to meet the UW–Madison teacher education standards. This is done via completion of the teaching portfolio. Student teachers within the music education certification program must also complete the edTPA.

Many of these certification and statutory requirements are embedded within the program’s requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 964)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. describe and apply foundational music education concepts and information.
2. plan, deliver and assess music learning experiences within chosen certification area that address as necessary the following standards: UWMTES, edTPA, Wisconsin Music Teaching Standards, and National Music Education Standards.
3. develop a level of proficiency in describing and applying foundational concepts of music education, e.g. music learning and teaching, which will be reflected in an ability to communicate to multiple diverse constituencies, so as to interpret, investigate, understand, appreciate and work within the complex musical world.
4. integrate knowledge in music learning and teaching in order to bring novel perspectives to challenging social and technological problems.
5. develop the ability to think critically and creatively as a music educator to synthesize, analyze and integrate ideas for decision-making and problem-solving in the best interest of all students.
6. communicate effectively in order to share knowledge, wisdom, values and beliefs regarding music learning and teaching with others across multiple social and professional settings.
7. understand own learning processes regarding musical education and possess the capacity to intentionally.
  - a. seek and evaluate information,
  - b. recognize and reduce bias in own thinking, and
  - c. build new knowledge for application in performance and professional lives.
8. construct a worldview of music education in order to accept responsibility for civic engagement and to appreciate the need to live live so purpose and meaning.
9. as music educators, develop and demonstrate a respect for truth, and appreciation for diverse views, and a strong sense of personal and professional ethics.

## PEOPLE

Professors Aley, Bartley, Blasius, Calderon, Chisholm, Cook, Crook, Davis, Dembski, Dill, Di Sanza, Doing, Earp, Fischer, Fulmer, Hyer, Jensen, Johnson, Jutt, Karp, Koza, Leckrone, Perry, Radano, Rowe, Schaffer, Schwendinger, Smith, Stowe, Swack, B. Taylor, C. Taylor, Teeple, Thimmig, Vardi

Associate Professors Dobbs, Hetzler, Vallon

Assistant Professors Grabois, Wallmann

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

#### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests

for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student

teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty

advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually

liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed

information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the

creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

## Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

## Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

## Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments

(names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## MUSIC: PERFORMANCE, B.M.

Majors in this program have a primary interest in professional concertizing, studio teaching (private or in a college or university), or commercial music performance. Some students envision this program as preparing them for other professional goals, such as church music, conducting, graduate study in music, or a facet of the music business. The faculty has designed the curricula to include a large complement of liberal studies (40 credits) along with the course work in music (90 credits). These 40 L&S credits must include satisfaction of all university General Education Requirements including Communication Parts A and B, Quantitative Reasoning Parts A and B, Natural Science, Social Science, and Ethnic Studies.

The music degree programs are demanding and require care in taking courses in the proper sequence. Graduation could be delayed if a course is not taken in the appropriate semester. Students are strongly encouraged to see the music advisor each semester. Some general guidelines are:

- Enroll in organizations (Band, Orchestra, Choir, or Accompanying) each semester, depending on the primary performance area.
- Enroll for performance study in the major instrument or voice each semester, planning a recital in the senior year.
- Enroll in secondary piano study the first year to begin working toward the specific requirement of the degree.
- Enroll in theory and music history courses according to the following schedule:

Code	Title	Credits
<b>Freshman</b>		
<i>Theory</i>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
<b>Sophomore</b>		
<i>Theory</i>		
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<i>Music History</i>		
MUSIC 211 & MUSIC 212	Survey of the History of Western Music and Survey of the History of Western Music	6
<b>Junior/Senior</b>		
<i>Music History</i>		
Select two of the following:		6
MUSIC 411	Survey of Music in the Middle Ages	



MUSIC 412	Survey of Music in the Renaissance
MUSIC 413	Survey of Music in the Baroque Era
MUSIC 414	Survey of Music in the Classic Era
MUSIC 415	Survey of Music in the Romantic Era
MUSIC 416	Survey of Music in the Twentieth Century
MUSIC 419	Music in the United States
MUSIC 511	Historical Performance Practices
MUSIC 513	Survey of Opera

- Enroll in 5-6 credits of courses outside music in Letters & Science.

All music majors are accepted for performance study (private lessons) at the 200 level on the major instrument. Students take a performance jury during the second or third year before progressing to advanced-level (400) study. Specific programs may dictate the exact distribution of course work and course sequences. If all department GPA requirements have been met and if the faculty have approved the student's request for a B.M.: Performance major, students may formally declare the music major after completing the 200-level music theory and history courses and after passing to 400-level study in the major instrument.

## HOW TO GET IN

### ADMISSIONS PROCEDURES

To become a candidate for a School of Music degree a student must be accepted by the UW–Madison Office of Admissions and Recruitment and by the School of Music Undergraduate Admissions Office, 3561H Mosse Humanities. These are the specific steps for applying to the UW–Madison School of Music:

- Review the information available on the School of Music website (<http://www.music.wisc.edu>). Any questions may be directed to the School of Music Undergraduate Admissions Office.
- **Request an audition date** by submitting a completed School of Music application.
- Students who expect to need financial assistance should consult the Office of Student Financial Aid (<http://www.finaid.wisc.edu>).
- Prepare the appropriate repertoire and materials for the audition.
- Request that official transcripts be sent to the School of Music Undergraduate Admissions Office from all high schools and colleges attended. Request written recommendations from two people who can attest to the applicant's musical background and ability.
- Come to the campus for an audition, which includes a ten- to twenty-minute performance audition, music theory and piano placement examinations, and an introduction to School of Music faculty, students, and facilities.

### TRANSFER STUDENTS

Students who have earned more than 24 course credits at another college or university follow the same application and audition procedures described above. Upon acceptance by UW–Madison and the School of Music, credits for music courses taken at another institution are interpreted by the UW–Madison Office of Admissions and Recruitment simply as elective music credits. These course credits, as they appear on the transcript(s), will be reviewed during a conference with the advisor

upon enrolling at UW–Madison. Transfer credit for music courses will be reviewed only after all placement and proficiency examinations in theory and piano have been taken at UW–Madison and syllabi for academic music courses have been submitted.

### REENTERING THE SCHOOL OF MUSIC

Students who were previously enrolled in the School of Music and UW–Madison who desire to reenter to seek an undergraduate degree should apply for reentry to both the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office (<http://www.music.wisc.edu>). An audition will be required in most cases.

### INTERNATIONAL STUDENTS

Students from other countries who seek admission to the university and the School of Music should contact International Student Services in addition to the UW–Madison Office of Admissions and Recruitment and the School of Music Undergraduate Admissions Office.

### TO DECLARE MAJOR

All B.M.–Performance students who have formally declared the major are assigned a classification of MUS in the College of Letters & Science. Before qualifying to declare the music major, each student is required to attain the following minimum grade point averages:

- 2.5 in music theory and history courses:

Code	Title	Credits
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3

- 3.0 in all music courses
- 2.75 cumulative (all courses)

### SPECIAL STUDENTS

Persons who are interested in courses offered by the School of Music but who are not working toward a UW–Madison degree should contact the Division of Continuing Studies, 21 North Park Street, Madison, WI 53715; 608-263-6960. Enrollment is limited in music courses, and priority is given to UW–Madison undergraduate degree candidates.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF MUSIC (B.M.): MUSIC PERFORMANCE

### General Education Requirements (GER)

(For a more detailed explanation, see the section on General Education Requirements (p. 17) in the *Guide*.)

Communication Part A and Part B, 3 to 6 cr

Quantitative Reasoning Part A and Part B, 3 to 6 cr

Natural Science, 4 to 6 cr

Ethnic Studies, 3 cr

### Liberal Studies (L&S Nonmusic)

Literature, 6 cr

Humanities, 6 cr

Social Studies, 6 cr

Electives, to bring total credits outside of music to 40

## REQUIREMENTS FOR THE MAJOR

In Bachelor of Music-Performance programs, most students enroll for lessons on the major instrument as follows:

**200 level:** first year, 2 credits each semester; second year, 4 credits each semester

**400 level:** third year, 4 credits each semester; fourth year, 4 credits first semester and 2 credits second semester plus 2 credits senior recital

### BRASS PERFORMANCE

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
	Trumpet, Horn, Trombone, Euphonium, Tuba	26
<b>Music Theory</b>		

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
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MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
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MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
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MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
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### Music History

MUSIC 211	Survey of the History of Western Music	3
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MUSIC 212	Survey of the History of Western Music	3
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Select two of the following: 6

MUSIC 411	Survey of Music in the Middle Ages	
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MUSIC 412	Survey of Music in the Renaissance	
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MUSIC 413	Survey of Music in the Baroque Era	
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MUSIC 414	Survey of Music in the Classic Era	
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MUSIC 415	Survey of Music in the Romantic Era	
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MUSIC 416	Survey of Music in the Twentieth Century	
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MUSIC 419	Music in the United States	
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MUSIC 511	Historical Performance Practices	
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MUSIC 513	Survey of Opera	
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### Piano

Take 4 credits in the following or pass proficiency exam: 4

MUS PERF 104	Intermediate Class Piano	
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### Organizations

Select 8 credits from the following: 8

MUSIC 40	Wind Ensemble	
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MUSIC 41	Concert Band	
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MUSIC 61	Chamber Orchestra	
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MUSIC 62	University Symphony Orchestra	
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### Ensemble

Take 4 credits in the following: 4

MUSIC 267	Ensemble-Brass	
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### Introduction to Conducting and Pedagogy

Select 2 credits in Introduction to Conducting and Pedagogy 2

### Non-Western Music Cultures

Select 2 credits from the following: 2

MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
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MUSIC 262	Jazz Ensemble	
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MUSIC 266	Black Music Ensemble	
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MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
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MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
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MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone
MUSIC 331	Jazz Improvisation
MUSIC 332	Jazz Improvisation
MUSIC 361	Non-Western Music Performance- Study Groups
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas
MUSIC/ FOLKLORE 401	Musical Cultures of the World
MUSIC/ FOLKLORE 402	Musical Cultures of the World
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion

**Music Electives**

Select 14 credits in music electives 14

Total Credits 90

**COMPOSITION**

Code	Title	Credits
<b>Composition</b>		
MUS PERF 147	First Year Composition	3
MUS PERF 148	First Year Composition	3
MUS PERF 247	Second Year Composition	3
MUS PERF 248	Second Year Composition	3
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3

**Music Theory**

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4

**Counterpoint**

MUSIC 621 or MUSIC 622	Renaissance Polyphony Baroque Counterpoint	3
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**Music History**

MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3

Select three of the following: 15

MUSIC 411	Survey of Music in the Middle Ages
MUSIC 412	Survey of Music in the Renaissance
MUSIC 413	Survey of Music in the Baroque Era

MUSIC 414	Survey of Music in the Classic Era
MUSIC 415	Survey of Music in the Romantic Era
MUSIC 416	Survey of Music in the Twentieth Century
MUSIC 419	Music in the United States
MUSIC 511	Historical Performance Practices
MUSIC 513	Survey of Opera

**Piano**

Take 8 credits in the following or pass proficiency exam: 8

MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors
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**Performing Organizations**

Select 4 credits from the following: 4

MUSIC 40	Wind Ensemble
MUSIC 41	Concert Band
MUSIC 43	University Band
MUSIC 50	Concert Choir
MUSIC 52	Women's Chorus
MUSIC 53	Choral Union
MUSIC 55	Masters' Singers
MUSIC 56	Chorale
MUSIC 58	Madrigal Singers
MUSIC 59	University Chorus
MUSIC 60	All-University String Orchestra
MUSIC 61	Chamber Orchestra
MUSIC 62	University Symphony Orchestra

**Introduction to Conducting and Pedagogy**Select 2 credits from Introduction to Conducting and  
Pedagogy 2**Musical Cultures of the World**

Select one of the following: 3

MUSIC/ FOLKLORE 401	Musical Cultures of the World
MUSIC/ FOLKLORE 402	Musical Cultures of the World
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion

**Orchestration**

MUSIC 523	Orchestration I	3
MUSIC 524	Orchestration II	3

**Music Electives**Select a minimum of 9 credits from the following Music  
(660) or Music Performance: 9

MUSIC 110	Introduction to Music Technology
MUSIC 253	Conducting
MUSIC 254	Conducting
MUSIC 273	Contemporary Chamber Ensemble
MUSIC 331	Jazz Improvisation
MUSIC 332	Jazz Improvisation
MUSIC 361	Non-Western Music Performance- Study Groups

MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas (after satisfaction of requirement above)	
MUSIC/ FOLKLORE 401	Musical Cultures of the World (after satisfaction of requirement above)	
MUSIC/ FOLKLORE 402	Musical Cultures of the World (after satisfaction of requirement above)	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion (after satisfaction of requirement above)	
MUSIC 497	Special Topics in Music (composition-related topics only)	
MUSIC 499	Directed Study	
MUSIC 623	Form and Analysis	
MUSIC 624	Form and Analysis II	
MUS PERF 457	Jazz Composition and Arranging	
MUS PERF 458	Jazz Composition and Arranging	
Total Credits		96

## GUITAR PERFORMANCE

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
Take 26 credits in the following:		26
MUS PERF 240	Elementary/Intermediate Guitar	
MUS PERF 440	Advanced Guitar	
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select two of the following:		6
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	

MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Piano</b>		
Take 4 credits in the following or pass proficiency exam:		4
MUS PERF 104	Intermediate Class Piano	
<b>Organizations</b>		
Select 4 credits from the following:		4
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 43	University Band	
MUSIC 50	Concert Choir	
MUSIC 52	Women's Chorus	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
MUSIC 60	All-University String Orchestra	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
<b>Guitar Ensemble</b>		
Take 8 credits in the following:		8
MUSIC 270	Ensemble-Guitar	
<b>Introduction to Conducting and Pedagogy</b>		
Select 2 credits in Introduction to Conducting and Pedagogy		2
<b>Non-Western Music Cultures</b>		
Select 2 credits in the following:		2
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance- Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
<b>Pedagogy</b>		

MUSIC 340	Pedagogy	2
<b>Repertoire</b>		
MUSIC 346	Repertoire	2
<b>Music Electives</b>		
Select 10 credits in music electives		10
Total Credits		90

## HARP PERFORMANCE

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
Take 26 credits in the following:		26
MUS PERF 239	Elementary/Intermediate Harp	
MUS PERF 439	Advanced Harp	
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Piano</b>		
Take 4 credits in the following or pass proficiency exam:		4
MUS PERF 104	Intermediate Class Piano	
<b>Organizations</b>		
Take 8 credits in the following:		8
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra (to be assigned)	
<b>String Ensemble</b>		
Take 4 credits in the following:		4

MUSIC 269	Ensemble-String	
<b>Ensemble Electives</b>		
Select 4 credits from the following:		4
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 43	University Band	
MUSIC 50	Concert Choir	
MUSIC 52	Women's Chorus	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
MUSIC 257	Opera Workshop	
MUSIC 262	Jazz Ensemble	
MUSIC 265	Ensemble-Woodwind	
MUSIC 266	Black Music Ensemble	
MUSIC 267	Ensemble-Brass	
MUSIC 268	Ensemble-Percussion	
MUSIC 269	Ensemble-String	
MUSIC 270	Ensemble-Guitar	
MUSIC 273	Contemporary Chamber Ensemble	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC 461	Collegium Musicum	
<b>Introduction to Conducting and Pedagogy</b>		
Select 2 credits in Introduction to Conducting and Pedagogy		2
<b>Non-Western Music Cultures</b>		
Select 2 credits from the following:		2
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	

MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
<b>Pedagogy</b>		
MUSIC 340	Pedagogy	2
<b>Repertoire</b>		
MUSIC 346	Repertoire	2
<b>Music Electives</b>		
Select 6 credits in music electives		6
Total Credits		87

## STATUS OF JAZZ STUDIES OPTION

As of Fall 2012, an updated Jazz Studies option is under development. Please contact the School of Music Undergraduate Admissions Office (admissions@music.wisc.edu) for up-to-date information on the status of the Jazz Studies option and on application dates and procedures. While the option is under development, students are already able to participate in jazz ensembles and classes in jazz foundations, improvisation techniques, jazz history, and jazz composition and arranging.

## ORGAN PERFORMANCE

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
Take 26 credits in the following:		26
MUS PERF 203	Elementary/Intermediate Organ	
MUS PERF 403	Advanced Organ	
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
Advanced-level Music Theory (400 level or above)		3
<b>Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	

MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Piano</b>		
Select two semesters at 200 level		4
<b>Organizations</b>		
Take 6 credits in the following:		6
MUSIC 50	Concert Choir	
MUSIC 52	Women's Chorus	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
<b>Introduction to Conducting and Pedagogy</b>		
Select 2 credit from Introduction to Conducting and Pedagogy		2
<b>Non-Western Music Cultures</b>		
Select 2 credits from the following:		2
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance- Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
<b>Music Electives</b>		
Select 17 credits in music electives		17
Total Credits		87

## PERCUSSION PERFORMANCE

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
Take 26 credit in the following:		26

MUS PERF 227	Elementary/Intermediate Percussion	
MUS PERF 427	Advanced Percussion	

**Music Theory**

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4

**Music History**

MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	

**Piano**

Take 4 credits in the following or pass proficiency exam:		4
MUS PERF 104	Intermediate Class Piano	

**Organizations**

Take 8 credits in the following:		8
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	

**Percussion Ensemble**

Take 4 credits in the following:		4
MUSIC 268	Ensemble-Percussion	

**Introduction to Conducting and Pedagogy**

Select 2 credits in Introduction to Conducting and Pedagogy		2
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**Non-Western Music Cultures**

Select 2 credits in the following:		2
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	

MUSIC 268	Ensemble-Percussion (world percussion section only)	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	

**Music Electives**

Select 14 credits in music electives		14
Total Credits		87

**PIANO PERFORMANCE**

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance Study</b>		
Take 26 credits in the following:		26
MUS PERF 201	Elementary/Intermediate Piano	
MUS PERF 401	Advanced Piano	
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	

MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Keyboard Skills and Accompanying</b>		
Take 10 credits in the following:		10
MUS PERF 251	Keyboard Skills	
MUS PERF 242	Accompanying	
MUS PERF 342	Piano Accompanying Lab	
<b>Introduction to Conducting and Pedagogy</b>		
Select 2 credits in Introduction to Conducting and Pedagogy		2
<b>Non-Western Music Cultures</b>		
Select 2 credits in the following:		2
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
<b>Pedagogy</b>		
MUSIC 340	Pedagogy	2
<b>Repertoire</b>		
Take 2 semesters of the following:		4
MUSIC 346	Repertoire	
<b>Music Electives</b>		
Select 14 credits in music electives		14
Total Credits		87

**STRING PERFORMANCE**

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance</b>		
Violin, Viola, Cello, Bass		26
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Music History</b>		
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
Select one of the following:		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Piano</b>		
Take 4 credits in the following or pass proficiency exam:		4
MUS PERF 104	Intermediate Class Piano	
<b>Organizations</b>		
Take 8 credits in the following:		8
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
<b>String Ensemble</b>		
Take 4 credits in the following:		4
MUSIC 269	Ensemble-String	
<b>Ensemble Electives</b>		
Select 4 credits in the following:		4
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 43	University Band	
MUSIC 50	Concert Choir	
MUSIC 52	Women's Chorus	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	



MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
MUSIC 257	Opera Workshop	
MUSIC 262	Jazz Ensemble	
MUSIC 265	Ensemble-Woodwind	
MUSIC 266	Black Music Ensemble	
MUSIC 267	Ensemble-Brass	
MUSIC 268	Ensemble-Percussion	
MUSIC 269	Ensemble-String	
MUSIC 270	Ensemble-Guitar	
MUSIC 273	Contemporary Chamber Ensemble	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC 461	Collegium Musicum	

**Introduction to Conducting and Pedagogy**

Select 2 credits in Introduction to Conducting and Pedagogy 2

**Non-Western Music Cultures**

Select 2 credits in the following: 2

MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance-Study Groups	
MUSIC/ AFROAMER 400	Music Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	

**Pedagogy**

MUSIC 340 Pedagogy 2

**Repertoire**

MUSIC 346 Repertoire 2

**Music Electives**

Select 6 credits in music electives 6

Total Credits 87

**VOICE PERFORMANCE**

Code	Title	Credits
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**Senior Recital**

MUS PERF 499	Senior Recital	2
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**Performance**

Take 26 credits in the following: 26

MUS PERF 205	Elementary/Intermediate Voice	
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MUS PERF 405	Advanced Voice	
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**Music Theory**

MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
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MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
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MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
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MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
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**Music History**

MUSIC 211	Survey of the History of Western Music	3
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MUSIC 212	Survey of the History of Western Music	3
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Select one of the following: 3

MUSIC 411	Survey of Music in the Middle Ages	
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MUSIC 412	Survey of Music in the Renaissance	
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MUSIC 413	Survey of Music in the Baroque Era	
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MUSIC 414	Survey of Music in the Classic Era	
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MUSIC 415	Survey of Music in the Romantic Era	
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MUSIC 416	Survey of Music in the Twentieth Century	
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MUSIC 419	Music in the United States	
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MUSIC 511	Historical Performance Practices	
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MUSIC 513	Survey of Opera	
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**Piano**

Take four semesters 8

**Organizations**

Take 4-8 credits in the following: 4-8

MUSIC 50	Concert Choir	
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MUSIC 56	Chorale	
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MUSIC 58	Madrigal Singers	
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**University Opera/Opera Workshop**

Select 0-4 credits in the following: 0-4

MUSIC 256	University Opera	
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MUSIC 257	Opera Workshop	
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**Introduction to Conducting and Pedagogy**

Select 2 credits in Introduction to Conducting and Pedagogy 2

**Non-Western Music Cultures**

Select 2 credits in the following: 2

MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC 361	Non-Western Music Performance- Study Groups	
MUSIC/ AFROAMER 400	Musical Cultures of the World: Africa, Europe, the Americas	
MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	

**Language Diction**

MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2

**Repertoire**

MUSIC 346	Repertoire	2
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**Music Electives**

Select 8 credits in music electives 8

Total Credits 83-91

**WOODWIND PERFORMANCE**

Code	Title	Credits
<b>Senior Recital</b>		
MUS PERF 499	Senior Recital	2
<b>Performance</b>		
Flute, Oboe, Clarinet, Bassoon, Saxophone		26
<b>Music Theory</b>		
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1 (prerequisite course requirements)	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2 (prerequisite course requirements)	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (prerequisite course requirements)	4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	4
<b>Music History</b>		

MUSIC 211	Survey of the History of Western Music	3
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MUSIC 212	Survey of the History of Western Music	3
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Select one of the following: 3

MUSIC 411	Survey of Music in the Middle Ages	
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MUSIC 412	Survey of Music in the Renaissance	
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MUSIC 413	Survey of Music in the Baroque Era	
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MUSIC 414	Survey of Music in the Classic Era	
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MUSIC 415	Survey of Music in the Romantic Era	
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MUSIC 416	Survey of Music in the Twentieth Century	
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MUSIC 419	Music in the United States	
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MUSIC 511	Historical Performance Practices	
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MUSIC 513	Survey of Opera	
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**Piano**

Take 4 credits in the following or pass proficiency exam: 4

MUS PERF 104	Intermediate Class Piano	
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**Organizations**

Take 8 credits in the following: 8

MUSIC 40	Wind Ensemble	
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MUSIC 41	Concert Band	
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MUSIC 61	Chamber Orchestra	
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MUSIC 62	University Symphony Orchestra	
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**Woodwind Ensemble**

Take 4 credits in the following: 4

MUSIC 265	Ensemble-Woodwind	
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**Introduction to Conducting and Pedagogy**

Select 2 credits in Introduction to Conducting and Pedagogy 2

**Non-Western Music Cultures**

Select 2 credits in the following: 2

MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
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MUSIC 262	Jazz Ensemble	
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MUSIC 266	Black Music Ensemble	
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MUSIC 268	Ensemble-Percussion	
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MUSIC/ AFROAMER 308	Black Music (1920-Present): Rhythm Section and Combos	
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MUSIC/ AFROAMER 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	
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MUSIC/ AFROAMER 310	Black Music (1920-Present): The Trumpet	
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MUSIC/ AFROAMER 311	Black Music (1920-Present): The Saxophone	
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MUSIC 331	Jazz Improvisation	
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MUSIC 332	Jazz Improvisation	
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MUSIC 361	Non-Western Music Performance- Study Groups	
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MUSIC/ AFROAMER 400	Musical Cultures of the World: Africa, Europe, the Americas	
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MUSIC/ FOLKLORE 401	Musical Cultures of the World	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC/ FOLKLORE 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	
<b>Music Electives</b>		
Select 14 credits in music electives		14
Total Credits		87

## HONORS IN THE MAJOR

The School of Music is reviewing its requirements for Honors in the Major. Current music majors may contact the undergraduate advisor for more information.

To earn Honors in any music major, students must satisfy the requirements below as well as all other requirements for their music degree and major.

- 6 credits of MUSIC 681 Senior Honors Thesis–MUSIC 682 Senior Honors Thesis
- 12 credits of honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.300 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.500 GPA in all music coursework and maintain a minimum 3.500 GPA in all music honors coursework.
- Engage a faculty member who will collaborate in planning the 12 credits of honors curriculum coursework; submit this plan to the undergraduate advisor. The course plan may change as students progress through their work.
- Prior to beginning work on the MUSIC 681–MUSIC 682 Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Develop advanced levels of proficiency in solo, chamber and ensemble performance sufficient to enter music professions or graduate programs.
2. Understand, synthesize and apply foundational concepts of musical study in theory, history and pedagogy.
3. Demonstrate the ability to learn independently and to integrate knowledge across domains of research and applied studies.
4. Communicate verbally, in writing and through public performance, musical ideas and concepts.
5. Demonstrate ability to work collaboratively and professionally in multiple settings.

## PEOPLE

Professors Aley, Bartley, Blasius, Calderon, Chisholm, Cook, Crook, Davis, Dembski, Dill, Di Sanza, Doing, Earp, Fischer, Fulmer, Hyer, Jensen, Johnson, Jutt, Karp, Koza, Leckrone, Perry, Radano, Rowe, Schaffer, Schwendinger, Smith, Stowe, Swack, B. Taylor, C. Taylor, Teeple, Thimmig, Vardi

Associate Professors Dobbs, Hetzler, Vallon

Assistant Professors Grabojs, Wallmann

## MOSSE/WEINSTEIN JEWISH STUDIES CENTER

Founded in 1991, the Mosse/Weinstein Center for Jewish Studies brings together a variety of disciplines to study and interpret Jewish and ancient Israelite history, religion, literature, politics, society, and culture. The center offers a broad selection of courses at all levels, which are cross-listed with other departments, including classics, curriculum and instruction, English, gender and women's studies, German, history, music, philosophy, political science, religious studies, Slavic languages, and sociology.

The Jewish studies major offers students an in-depth study of 3,500 years of Jewish civilization. The program is interdisciplinary in nature and aims to provide students with a broadly based, rigorous liberal arts education in Jewish studies. While learning about Jewish history, religion, language, and culture, students also develop skills in critical thinking, reading, writing, and research—skills that are valuable to a range of career

paths. Students with a particular interest in Modern Hebrew and Israel are encouraged to follow a specialized track in Modern Hebrew language, literature, and Israeli culture.

The Jewish studies major requires a minimum of 31 credits and proficiency in the Hebrew language to enable students to deal with Hebrew texts in the classroom and for research purposes. The credits are divided among several clusters that focus on Hebrew texts; literature, philosophy, and the arts; and history and social science. In addition, students must complete a two-course capstone sequence. Together, these courses support the acquisition of an integrated and coherent body of knowledge.

A certificate in Jewish studies is also available. Its aim is to acquaint students with a number of significant aspects of Jewish civilization and to introduce them to tools required for its study; it requires a minimum of 21 credits in seven courses.

The major has an education track that includes coursework in the School of Education. It requires a total of 34 credits—25 in Jewish studies and 9 in education (curriculum and instruction, and educational policy studies). This track provides a series of courses that define the role that education has played in Jewish civilization; Jewish ideas concerning the nature and aims of education; and philosophical, curricular, and pedagogical issues relating to education in Jewish studies in a pluralistic, democratic society. This track does not lead to teacher certification.

## DEGREES/MAJORS/CERTIFICATES

- Jewish Studies, B.A. (p. 980)
- Jewish Studies, B.S. (p. 985)
- Jewish Studies, Certificate (p. 990)

## PEOPLE

Professors Bernard-Donals, Brenner, Ermakoff, Goldberg, Guyer, Hutton, Loudon, Michels, Nadler, Rosenberg, Rosenblum, Rosenmeyer, Schweber, Swack, Vardi

Associate Professors Dobbs, Shelef, Strauss

Assistant Professors Bitzan, Brisman, Hollander, Mandell, Yudkoff, Zilbergers

Lecturers Blakely, Paretskaya, Sone, Yuchtman

Jewish Studies Faculty Information (<http://jewishstudies.wisc.edu/faculty>)

## JEWISH STUDIES, B.A.

Founded in 1991, the Mosse/Weinstein Center for Jewish Studies brings together a variety of disciplines to study and interpret Jewish and ancient Israelite history, religion, literature, politics, society, and culture. The center offers a broad selection of courses at all levels, which are cross-listed with other departments, including classics, curriculum and instruction, English, gender and women's studies, German, history, music, philosophy, political science, religious studies, Slavic languages, and sociology.

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## HOW TO GET IN

Prospective majors in Jewish studies should make an appointment with the undergraduate advisor ([undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu)) to discuss requirements and courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

Completion of the major requires a minimum of **31 credits** in Jewish studies, distributed as follows:

Code	Title	Credits
<i>Introduction to Judaism</i>		
JEWISH/RELIG ST 211	Introduction to Judaism	
<i>Hebrew Texts</i>		
Select two of the following in Hebrew texts at the level above 202 in Modern Hebrew:		
HEBR-MOD/JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	
<i>Literature, Philosophy, and the Arts</i>		
Select three courses in Jewish literature, philosophy, and the arts (see below)		
<i>History and Social Science</i>		
Select three courses in Jewish history or social science (see below)		
<i>Capstone</i>		
The capstone sequence is intended for students nearing the end of their coursework and consists of two courses, which are taken concurrently:		
JEWISH 675 & JEWISH 677	Research Colloquium for Majors and Independent Research for Majors	
<i>Optional Track</i>		
See "Track in Modern Hebrew Language, Literature, and Israeli Culture" below		

### LANGUAGE REQUIREMENT

The major includes a language requirement of Hebrew proficiency equal to four semesters of Modern Hebrew:

Code	Title	Credits
HEBR-MOD 101	First Semester Hebrew	4
HEBR-MOD 102	Second Semester Hebrew	4
HEBR-MOD 201	Third Semester Hebrew	4
HEBR-MOD 202	Fourth Semester Hebrew	4

These first four semesters of Hebrew do not count toward the 31 credits for the major. The Center for Jewish Studies, 4223 Mosse Humanities Building, administers placement examinations.

### NOTE ON DIRECTED STUDY

With prior consent of the undergraduate advisor in Jewish studies and the relevant instructor, students may use one Directed Study course (JEWISH 699 Directed Study) to satisfy a requirement for the major.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all JEWISH courses and courses accepted in the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in JEWISH, taken on campus

<sup>1</sup> JEWISH courses, 300 and higher, that are designated as Intermediate or Advanced, count as upper level in the major

### LITERATURE, PHILOSOPHY, AND THE ARTS

Three courses in Jewish literature, philosophy, and the arts, at least one of which must deal with the Jewish experience in Diaspora written in a language other than Hebrew—e.g., English, French, German, Russian, Yiddish. (Courses taken to satisfy the requirement in Hebrew texts cannot be used to satisfy this requirement.) Courses fulfilling the Diaspora requirement are indicated with a footnote. Depending on the semester, select topics courses may also fulfill the Diaspora requirement.

Code	Title	Credits
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH 230	Elementary Topics in Jewish Literature	3-4
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	3-4
JEWISH 236	Bascom Course <sup>2</sup>	3
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe <sup>1</sup>	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism <sup>1</sup>	3-4
JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America <sup>1</sup>	3
JEWISH/HEBR- MOD 301 & JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature and Introduction to Hebrew Literature	6
JEWISH/ LITTRANS 318	Modern Jewish Literature <sup>1</sup>	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH/CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3

JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/HISTORY/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3
JEWISH/HEBR- MOD 401 & JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture I and Topics in Modern Hebrew / Israeli Literature and Culture II	6
JEWISH 430	Intermediate Topics in Jewish Literature	3-4
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts	3-4
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century <sup>1</sup>	3
JEWISH/ RELIG ST 448	Classical Rabbinic Texts	3
JEWISH 450	Undegraduate Seminar in Judaism and the Arts <sup>1</sup>	3
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century <sup>1</sup>	3
JEWISH/HEBR- BIB 513 & JEWISH/HEBR- BIB 514	Biblical Texts, Poetry and Biblical Texts, Poetry	6
JEWISH 533 & JEWISH 534	Readings in Contemporary Hebrew Literature and Readings in Contemporary Hebrew Literature	6
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
JEWISH/ENGL 593	Literature of Jewish Identity in America <sup>1</sup>	3
JEWISH 630	Advanced Topics in Jewish Literature	3-4
JEWISH 632	Advanced Topics in Jewish Philosophy and the Arts	3-4

<sup>1</sup> Course fulfills the Diaspora requirement.

<sup>2</sup> Bascom Courses are small (20 students or fewer) and generally focus on one particular topic that would generate substantial in-depth papers throughout the semester. Recent topics include: Jewish Composers: Early Modern to Modern; Modern American Jewish Fiction; and Writing (and) the Holocaust.

### HISTORY AND SOCIAL SCIENCE

Three courses in Jewish history or social science, at least one of which must deal with the experience of Jews in America. Students are strongly encouraged to take at least one course offered by the History department. Courses fulfilling the American requirement are indicated with a footnote. Depending on the semester, select topics courses may also fulfill the American requirement.

Code	Title	Credits
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb <sup>1</sup>	4

JEWISH/ HISTORY 220	Introduction to Modern Jewish History	4
JEWISH 231	Elementary Topics in Jewish History	3-4
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
JEWISH/ HISTORY 373	Modern Political History of the Jews: 1655-1919	4
JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4
JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s <sup>1</sup>	3-4
JEWISH 431	Intermediate Topics in Jewish History	3-4
JEWISH 433	Intermediate Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ CLASSICS 451	Biblical Archaeology	3
JEWISH/HEBR- BIB 452	Biblical Archaeology	2
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945	3
JEWISH/HISTORY/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
JEWISH 633	Advanced Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4

<sup>1</sup> Course fulfills the American requirement.

### MAJOR IN JEWISH STUDIES: TRACK IN MODERN HEBREW LANGUAGE, LITERATURE, AND ISRAELI CULTURE

Students majoring in Jewish studies may choose to focus their Jewish studies coursework on Modern Hebrew literature and the culture, history, and politics of Israel. This track follows the general requirements of the Jewish studies major, with the following modifications:

- The diaspora requirement in the Literature, Philosophy, and the Arts category is eliminated.

- The American requirement for the History and Social Science category is eliminated.
- Students in this track must take HEBR-MOD/JEWISH 401 and HEBR-MOD/JEWISH 402 (repeatable for credit). These courses can be used to fulfill either the Hebrew Texts requirement or the Literature, Philosophy, and the Arts requirement.
- In the event that a student uses HEBR-MOD/JEWISH 401–HEBR-MOD/JEWISH 402 to fulfill the Hebrew Texts requirement, the student must repeat HEBR-MOD/JEWISH 402. The second time the student takes HEBR-MOD/JEWISH 402, it will count toward the Literature, Philosophy, and the Arts requirement.
- In the six courses taken across the “Literature, Philosophy, and the Arts” and “History and Social Science” clusters, four courses must deal in some way with Israel. Some courses (see list below) are preapproved for this track.

Code	Title	Credits
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
LCA 266	Introduction to the Middle East	3

POLI SCI 333	International Politics of the Middle East	3-4
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## MAJOR IN JEWISH STUDIES: TRACK IN EDUCATION

(Degree awarded in College of Letters & Science)

A total of 34 credits—19 in Jewish studies, 9 in education, and 6 in education and Jewish studies. Students electing the education track are responsible for reaching the level of fourth-semester proficiency in Hebrew necessary for required courses in Hebrew texts.

Code	Title	Credits
<b>Jewish Studies Requirements</b>		
JEWISH/ RELIG ST 211	Introduction to Judaism	4
	Jewish literature	3
	Jewish history	6
	Select two of the following courses in Hebrew texts at the level above 202 in Modern Hebrew:	6
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	
<b>Education Requirements</b>		
	Select one of the following in developing a philosophical stance:	3
ED POL/ PHILOS 545	Philosophical Conceptions of Teaching and Learning	
ED POL/ PHILOS 550	Philosophy of Moral Education	
	Select one of the following in education in Jewish studies in a democratic, pluralistic society:	3
ED POL 460	Immigration, Education, and Equity	
CURRIC/ED POL/ RELIG ST 516	Religion and Public Education	
	Select one of the following in pedagogical/curricular issues pertinent to education in Jewish studies:	3
CURRIC 359	Teaching of History and the Other Social Studies	
CURRIC 431	Young Adult Literature for Schools	
CURRIC/JEWISH 515	Holocaust: History, Memory and Education	
<b>Education and Jewish Studies Requirements</b>		
JEWISH 675 & JEWISH 677	Research Colloquium for Majors and Independent Research for Majors (capstone sequence)	4
Total Credits		32

## HONORS IN THE MAJOR

Students may declare Honors in the Jewish Studies Major in consultation with the Jewish Studies undergraduate advisor.

## HONORS IN THE JEWISH STUDIES MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Jewish Studies or the separate track in Education and Jewish Studies and Modern Hebrew Language, Literature and Culture, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all JEWISH courses, and all courses accepted in the major
- Complete at least two courses, taken for Honors, in the major, with grades of B or better in each
- Complete a two-semester Senior Honors Thesis, a piece of original research composition, in JEWISH 681 Senior Honors Thesis and JEWISH 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## ADVISING AND CAREERS

Like other liberal arts majors, a degree in Jewish studies can prepare one for a variety of career paths. Graduates in Jewish studies have followed a variety of different career paths, including law, medicine, education, finance, social work, and the nonprofit sector. Jewish studies students are also well prepared to apply for graduate studies in fields such as law, education, business, and social work, as well as prime candidates for rabbinical or cantorial school, theological studies, and advanced levels of Jewish studies.

The Mosse/Weinstein Center for Jewish Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).



Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Professors: Bernard-Donals, Brenner, Ermakoff, Goldberg, Guyer, Hutton, Loudon, Michels, Nadler, Rosenberg, Rosenblum, Rosenmeyer, Schweber, Swack, Vardi

Associate Professors: Dobbs, Shelef, Strauss

Assistant Professors: Bitzan, Brisman, Hollander, Mandell, Yudkoff, Zilbergers

Lecturers: Blakely, Paretskaya, Sone, Yuchtman

Jewish Studies Faculty Information (<http://jewishstudies.wisc.edu/faculty>)

## JEWISH STUDIES, B.S.

Founded in 1991, the Mosse/Weinstein Center for Jewish Studies brings together a variety of disciplines to study and interpret Jewish and ancient Israelite history, religion, literature, politics, society, and culture. The center offers a broad selection of courses at all levels, which are cross-listed with other departments, including classics, curriculum and instruction, English, gender and women's studies, German, history, music, philosophy, political science, religious studies, Slavic languages, and sociology.

The Jewish studies major offers students an in-depth study of 3,500 years of Jewish civilization. The program is interdisciplinary in nature and aims to provide students with a broadly based, rigorous liberal arts education in Jewish studies. While learning about Jewish history, religion, language, and culture, students also develop skills in critical thinking, reading, writing, and research—skills that are valuable to a range of career paths. Students with a particular interest in Modern Hebrew and Israel are encouraged to follow a specialized track in Modern Hebrew language, literature, and Israeli culture.

The Jewish studies major requires a minimum of 31 credits and proficiency in the Hebrew language to enable students to deal with Hebrew texts in the classroom and for research purposes. The credits are divided among several clusters that focus on Hebrew texts; literature, philosophy, and the arts; and history and social science. In addition, students must complete a two-course capstone sequence. Together, these courses support the acquisition of an integrated and coherent body of knowledge.

A certificate in Jewish studies is also available. Its aim is to acquaint students with a number of significant aspects of Jewish civilization and to introduce them to tools required for its study; it requires a minimum of 21 credits in seven courses.

The major has an education track that includes coursework in the School of Education. It requires a total of 34 credits—25 in Jewish studies and 9 in education (curriculum and instruction, and educational policy studies). This track provides a series of courses that define the role that education has played in Jewish civilization; Jewish ideas concerning the nature and aims of education; and philosophical, curricular, and pedagogical issues relating to education in Jewish studies in a pluralistic, democratic society. This track does not lead to teacher certification.

## HOW TO GET IN

Prospective majors in Jewish studies should make an appointment with the undergraduate advisor ([undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu)) to discuss requirements and courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

**Foreign Language** Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

## REQUIREMENTS FOR THE MAJOR

Completion of the major requires a minimum of **31 credits** in Jewish studies, distributed as follows:

Code	Title	Credits
<i>Introduction to Judaism</i>		
JEWISH/RELIG ST 211	Introduction to Judaism	
<i>Hebrew Texts</i>		
Select two of the following in Hebrew texts at the level above 202 in Modern Hebrew:		
HEBR-MOD/JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	

### Introduction to Judaism

JEWISH/RELIG ST 211	Introduction to Judaism
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### Hebrew Texts

Select two of the following in Hebrew texts at the level above 202 in Modern Hebrew:

HEBR-MOD/JEWISH 301	Introduction to Hebrew Literature
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HEBR-MOD/JEWISH 302	Introduction to Hebrew Literature
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HEBR-MOD/JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I
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HEBR-MOD/JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II
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### Literature, Philosophy, and the Arts

Select three courses in Jewish literature, philosophy, and the arts (see below)

### History and Social Science

Select three courses in Jewish history or social science (see below)

### Capstone

The capstone sequence is intended for students nearing the end of their coursework and consists of two courses, which are taken concurrently:

JEWISH 675 & JEWISH 677	Research Colloquium for Majors and Independent Research for Majors
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### Optional Track

See "Track in Modern Hebrew Language, Literature, and Israeli Culture" below

## LANGUAGE REQUIREMENT

The major includes a language requirement of Hebrew proficiency equal to four semesters of Modern Hebrew:

Code	Title	Credits
HEBR-MOD 101	First Semester Hebrew	4
HEBR-MOD 102	Second Semester Hebrew	4
HEBR-MOD 201	Third Semester Hebrew	4
HEBR-MOD 202	Fourth Semester Hebrew	4

These first four semesters of Hebrew do not count toward the 31 credits for the major. The Center for Jewish Studies, 4223 Mosse Humanities Building, administers placement examinations.

## NOTE ON DIRECTED STUDY

With prior consent of the undergraduate advisor in Jewish studies and the relevant instructor, students may use one Directed Study course (JEWISH 699 Directed Study) to satisfy a requirement for the major.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all JEWISH courses and courses accepted in the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in JEWISH, taken on campus

<sup>1</sup> JEWISH courses, 300 and higher, that are designated as Intermediate or Advanced, count as upper level in the major

## LITERATURE, PHILOSOPHY, AND THE ARTS

Three courses in Jewish literature, philosophy, and the arts, at least one of which must deal with the Jewish experience in Diaspora written in a language other than Hebrew—e.g., English, French, German, Russian, Yiddish. (Courses taken to satisfy the requirement in Hebrew texts cannot be used to satisfy this requirement.) Courses fulfilling the Diaspora requirement are indicated with a footnote. Depending on the semester, select topics courses may also fulfill the Diaspora requirement.

Code	Title	Credits
JEWISH/CLASSICS/LITTRANS/RELIG ST 227	Introduction to Biblical Literature (in English)	4

JEWISH 230	Elementary Topics in Jewish Literature	3-4
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	3-4
JEWISH 236	Bascom Course <sup>2</sup>	3
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe <sup>1</sup>	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism <sup>1</sup>	3-4
JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America <sup>1</sup>	3
JEWISH/HEBR- MOD 301 & JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature and Introduction to Hebrew Literature	6
JEWISH/ LITTRANS 318	Modern Jewish Literature <sup>1</sup>	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH/CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/HISTORY/ MEDIÉVAL/ RELIG ST 368	The Bible in the Middle Ages	3
JEWISH/HEBR- MOD 401 & JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture I and Topics in Modern Hebrew / Israeli Literature and Culture II	6
JEWISH 430	Intermediate Topics in Jewish Literature	3-4
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts	3-4
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century <sup>1</sup>	3
JEWISH/ RELIG ST 448	Classical Rabbinic Texts	3
JEWISH 450	Undegraduate Seminar in Judaism and the Arts <sup>1</sup>	3
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century <sup>1</sup>	3
JEWISH/HEBR- BIB 513 & JEWISH/HEBR- BIB 514	Biblical Texts, Poetry and Biblical Texts, Poetry	6

JEWISH 533 & JEWISH 534	Readings in Contemporary Hebrew Literature and Readings in Contemporary Hebrew Literature	6
JEWISH/ENGL 539	Jewish Literatures in Diaspora	3
JEWISH/ENGL 593	Literature of Jewish Identity in America <sup>1</sup>	3
JEWISH 630	Advanced Topics in Jewish Literature	3-4
JEWISH 632	Advanced Topics in Jewish Philosophy and the Arts	3-4

- <sup>1</sup> Course fulfills the Diaspora requirement.  
<sup>2</sup> Bascom Courses are small (20 students or fewer) and generally focus on one particular topic that would generate substantial in-depth papers throughout the semester. Recent topics include: Jewish Composers: Early Modern to Modern; Modern American Jewish Fiction; and Writing (and) the Holocaust.

### HISTORY AND SOCIAL SCIENCE

Three courses in Jewish history or social science, at least one of which must deal with the experience of Jews in America. Students are strongly encouraged to take at least one course offered by the History department. Courses fulfilling the American requirement are indicated with a footnote. Depending on the semester, select topics courses may also fulfill the American requirement.

Code	Title	Credits
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb <sup>1</sup>	4
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	4
JEWISH 231	Elementary Topics in Jewish History	3-4
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
JEWISH/ HISTORY 373	Modern Political History of the Jews: 1655-1919	4
JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4
JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s <sup>1</sup>	3-4
JEWISH 431	Intermediate Topics in Jewish History	3-4
JEWISH 433	Intermediate Topics in Jewish Studies: Social Sciences	3-4

JEWISH/ CLASSICS 451	Biblical Archaeology	3	JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/HEBR- BIB 452	Biblical Archaeology	2	JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3	JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945	3	JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/HISTORY/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4	JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3	JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH 633	Advanced Topics in Jewish Studies: Social Sciences	3-4	JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4	JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4

<sup>1</sup> Course fulfills the American requirement.

## MAJOR IN JEWISH STUDIES: TRACK IN MODERN HEBREW LANGUAGE, LITERATURE, AND ISRAELI CULTURE

Students majoring in Jewish studies may choose to focus their Jewish studies coursework on Modern Hebrew literature and the culture, history, and politics of Israel. This track follows the general requirements of the Jewish studies major, with the following modifications:

- The diaspora requirement in the Literature, Philosophy, and the Arts category is eliminated.
- The American requirement for the History and Social Science category is eliminated.
- Students in this track must take HEBR-MOD/JEWISH 401 and HEBR-MOD/JEWISH 402 (repeatable for credit). These courses can be used to fulfill either the Hebrew Texts requirement or the Literature, Philosophy, and the Arts requirement.
- In the event that a student uses HEBR-MOD/JEWISH 401–HEBR-MOD/JEWISH 402 to fulfill the Hebrew Texts requirement, the student must repeat HEBR-MOD/JEWISH 402. The second time the student takes HEBR-MOD/JEWISH 402, it will count toward the Literature, Philosophy, and the Arts requirement.
- In the six courses taken across the “Literature, Philosophy, and the Arts” and “History and Social Science” clusters, four courses must deal in some way with Israel. Some courses (see list below) are preapproved for this track.

Code	Title	Credits
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4

JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
LCA 266	Introduction to the Middle East	3
POLI SCI 333	International Politics of the Middle East	3-4

## MAJOR IN JEWISH STUDIES: TRACK IN EDUCATION

(Degree awarded in College of Letters & Science)

A total of 34 credits—19 in Jewish studies, 9 in education, and 6 in education and Jewish studies. Students electing the education track are responsible for reaching the level of fourth-semester proficiency in Hebrew necessary for required courses in Hebrew texts.

Code	Title	Credits
<b>Jewish Studies Requirements</b>		
JEWISH/ RELIG ST 211	Introduction to Judaism	4
	Jewish literature	3
	Jewish history	6
	Select two of the following courses in Hebrew texts at the level above 202 in Modern Hebrew:	6
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	
<b>Education Requirements</b>		
	Select one of the following in developing a philosophical stance:	3

ED POL/ PHILOS 545	Philosophical Conceptions of Teaching and Learning	
ED POL/ PHILOS 550	Philosophy of Moral Education	
Select one of the following in education in Jewish studies in a democratic, pluralistic society:		3
ED POL 460	Immigration, Education, and Equity	
CURRIC/ED POL/ RELIG ST 516	Religion and Public Education	
Select one of the following in pedagogical/curricular issues pertinent to education in Jewish studies:		3
CURRIC 359	Teaching of History and the Other Social Studies	
CURRIC 431	Young Adult Literature for Schools	
CURRIC/JEWISH 515	Holocaust: History, Memory and Education	
<b>Education and Jewish Studies Requirements</b>		
JEWISH 675 & JEWISH 677	Research Colloquium for Majors and Independent Research for Majors (capstone sequence)	4
Total Credits		32

## HONORS IN THE MAJOR

Students may declare Honors in the Jewish Studies Major in consultation with the Jewish Studies undergraduate advisor.

### HONORS IN THE JEWISH STUDIES MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Jewish Studies or the separate track in Education and Jewish Studies and Modern Hebrew Language, Literature and Culture, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all JEWISH courses, and all courses accepted in the major
- Complete at least two courses, taken for Honors, in the major, with grades of B or better in each
- Complete a two-semester Senior Honors Thesis, a piece of original research composition, in JEWISH 681 Senior Honors Thesis and JEWISH 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

## ADVISING AND CAREERS

Like other liberal arts majors, a degree in Jewish studies can prepare one for a variety of career paths. Graduates in Jewish studies have followed a variety of different career paths, including law, medicine, education, finance, social work, and the nonprofit sector. Jewish studies students are also well prepared to apply for graduate studies in fields such as law, education, business, and social work, as well as prime candidates for rabbinical or cantorial school, theological studies, and advanced levels of Jewish studies.

The Mosse/Weinstein Center for Jewish Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Professors Bernard-Donals, Brenner, Ermakoff, Goldberg, Guyer, Hutton, Loudon, Michels, Nadler, Rosenberg, Rosenblum, Rosenmeyer, Schweber, Swack, Vardi

Associate Professors Dobbs, Shelef, Strauss

Assistant Professors Bitzan, Brisman, Hollander, Mandell, Yudkoff, Zilbergers

Lecturers Blakely, Paretskaya, Sone, Yuchtman

Jewish Studies Faculty Information (<http://jewishstudies.wisc.edu/faculty>)

## JEWISH STUDIES, CERTIFICATE

Founded in 1991, the Mosse/Weinstein Center for Jewish Studies brings together a variety of disciplines to study and interpret Jewish and ancient Israelite history, religion, literature, politics, society, and culture. The center offers a broad selection of courses at all levels, which are cross-listed with other departments, including classics, curriculum and instruction, English, gender and women's studies, German, history, music, philosophy, political science, religious studies, Slavic languages, and sociology.

The Jewish studies certificate aims to acquaint students with a number of significant aspects of Jewish civilization and to introduce them to the tools required for its study. It requires a minimum of 21 credits in seven courses. Students can focus on their own particular interests while learning about Jewish history, religion, language, and culture. Students who plan study abroad in Israel are encouraged to explore the Jewish studies certificate.

### HOW TO GET IN

Students interested in a certificate in Jewish studies should make an appointment with the undergraduate advisor (undergrad-adviser@cjs.wisc.edu) to discuss requirements and courses.

### REQUIREMENTS

The certificate in Jewish studies aims to acquaint students with a number of significant aspects of Jewish civilization and to introduce them to some of the tools required for its study. In addition to a two-semester language requirement, students must complete coursework in literature, philosophy, and the arts; history and social sciences; and the pre-modern area. The certificate complements a major in any subject in the College of Letters & Science. It also strengthens the applications of those students who intend to pursue careers or graduate study in a field related to Jewish studies.

### LANGUAGE REQUIREMENT

Students are required to take at least two semesters of Modern Hebrew. Students with a prior knowledge of the language are also required to take one year of instruction at the appropriate level. Students whose prior knowledge is equivalent to four semesters or more of Hebrew language instruction are required to take two courses in Hebrew texts (HEBR-MOD/JEWISH 301, HEBR-MOD/JEWISH 302, HEBR-MOD/JEWISH 401, HEBR-MOD/JEWISH 402). The Center for Jewish Studies, 4223 Mosse Humanities Building, administers placement examinations.

**Note:** The following lower-division Hebrew language courses can be used to satisfy the language requirement, but because they are not cross-listed with Jewish studies, they cannot be used to satisfy any other requirements for the certificate:

Code	Title	Credits
HEBR-MOD 101	First Semester Hebrew	4
HEBR-MOD 102	Second Semester Hebrew	4
HEBR-MOD 201	Third Semester Hebrew	4
HEBR-MOD 202	Fourth Semester Hebrew	4

In contrast, Hebrew literature courses (301 and above), since they are cross-listed with Jewish studies, can be used to satisfy other requirements for the certificate.

### COURSE REQUIREMENTS

Certificate students must take **21 credits** in **seven courses**, distributed as follows:

**Notes:** Jewish studies courses taken abroad may also satisfy the certificate requirements. Students who have taken such courses should consult with the certificate advisor. A directed study course (JEWISH 699 Directed Study) used to satisfy a cluster requirement must be approved in advance by the undergraduate advisor.

#### SELECT TWO SEMESTERS OF HEBREW LANGUAGE (SEE ABOVE)

#### SELECT ONE COURSE IN EACH OF THE FOLLOWING THREE CLUSTERS:

##### CLUSTER ONE: LITERATURE, PHILOSOPHY AND THE ARTS

Code	Title	Credits
JEWISH/ RELIG ST 211	Introduction to Judaism	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH 230	Elementary Topics in Jewish Literature	3-4
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	3-4
JEWISH 236	Bascom Course	3
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/ GERMAN 267	Yiddish Song and the Jewish Experience	3-4
JEWISH/GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	3
JEWISH 299	Directed Study	1-3
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3
JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature	3
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH/CLASSICS/ RELIG ST 335	King David in History and Tradition	3

JEWISH 343	Israeli Fiction in Translation	3-4
JEWISH/CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	3-4
JEWISH/HISTORY/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I	3
JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II	3
JEWISH 430	Intermediate Topics in Jewish Literature	3-4
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts	3-4
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	3
JEWISH/ RELIG ST 448	Classical Rabbinic Texts	3
JEWISH 450	Undegraduate Seminar in Judaism and the Arts	3
JEWISH 490	Topics in Jewish Studies	3
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century	3
JEWISH 699	Directed Study	1-3

### CLUSTER TWO: HISTORY AND SOCIAL SCIENCE

Code	Title	Credits
JEWISH/ RELIG ST 211	Introduction to Judaism	4
JEWISH/ HISTORY 213	Jews and American Pop. Culture	3-4
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb	4
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	4
JEWISH 231	Elementary Topics in Jewish History	3-4
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4
JEWISH/SOC 258	The Jews, States, and Citizenship: A Sociological Perspective	3
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH 299	Directed Study	1-3
JEWISH/ANTHRO/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
JEWISH/ HISTORY 373	Modern Political History of the Jews: 1655-1919	4

JEWISH/ HISTORY 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4
JEWISH/ HISTORY 416	Eastern European Jews in the United States, 1880s-1930s	3-4
JEWISH 431	Intermediate Topics in Jewish History	3-4
JEWISH/ CLASSICS 451	Biblical Archaeology	3
JEWISH/HEBR- BIB 452	Biblical Archaeology	2
JEWISH 490	Topics in Jewish Studies	3
JEWISH/CURRIC/ HISTORY 515	Holocaust: History, Memory and Education	3
JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945	3
JEWISH/HISTORY/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
JEWISH 625	The Holocaust: Facts, Trials, Verdicts, Post-Verdicts	3
JEWISH 631	Advanced Topics in Jewish History	3-4
JEWISH 633	Advanced Topics in Jewish Studies: Social Sciences	3-4
JEWISH/ POLI SCI 665	Israeli Politics and Society	3-4
JEWISH 699	Directed Study	1-3

### CLUSTER THREE: PRE-MODERN JEWISH HISTORY, CULTURE, OR LITERATURE

Code	Title	Credits
JEWISH/ RELIG ST 211	Introduction to Judaism	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4
JEWISH/CLASSICS/ LITTRANS/ RELIG ST 237	Biblical Poetry in Translation	3
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	4
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	3-4
JEWISH/LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	3-4
JEWISH/CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4
JEWISH/CLASSICS/ RELIG ST 335	King David in History and Tradition	3
JEWISH/CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	3
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3

JEWISH/HISTORY/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3
JEWISH/ RELIG ST 448	Classical Rabbinic Texts	3
JEWISH/ CLASSICS 451	Biblical Archaeology	3
JEWISH/HEBR- BIB 452	Biblical Archaeology	2

## SELECT TWO ADDITIONAL JEWISH STUDIES OR MODERN HEBREW COURSES ABOVE TO MEET THE MINIMUM COURSE AND CREDIT REQUIREMENTS FOR THE CERTIFICATE

### RESIDENCE AND QUALITY OF WORK

A cumulative 2.000 GPA in all courses counting for the certificate

11 credits, counting toward the certificate, taken in residence

## ADVISING AND CAREERS

Jewish studies can prepare one for a variety of career paths. Graduates in Jewish studies have followed a variety of different career paths, including law, medicine, education, finance, social work, and the nonprofit sector. Jewish studies students are also well prepared to apply for graduate studies in fields such as law, education, business, and social work, as well as prime candidates for rabbinical or cantorial school, theological studies, and advanced levels of Jewish studies.

The Mosse/Weinstein Center for Jewish Studies encourages students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major or certificate, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- Inter-LS 210 Taking Initiative: L&S Career Development Course (<https://canvas.wisc.edu/courses/288>) (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

Professors: Bernard-Donals, Brenner, Ermakoff, Goldberg, Guyer, Hutton, Loudon, Michels, Nadler, Rosenberg, Rosenblum, Rosenmeyer, Schweber, Swack, Vardi

Associate Professors: Dobbs, Shelef, Strauss

Assistant Professors: Bitzan, Brisman, Hollander, Mandell, Yudkoff, Zilbergers

Lecturers: Blakely, Paretskaya, Sone, Yuchtman

Jewish Studies Faculty Information (<http://jewishstudies.wisc.edu/faculty>)

## PHILOSOPHY

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science, politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## DEGREES/MAJORS/CERTIFICATES

- Philosophy, B.A. (p. 992)
- Philosophy, B.S. (p. 995)

## PEOPLE

Professors Bengson, Brighthouse, Fletcher, Gibson, Gottlieb, Hausman, Kelleher, Mackay, Masrour, Messina, Nadler, Paul, Schectman, Shafer-Landau, Shapiro, Sidelle, Sober, Southgate, Steinberg, Streiffer, Titlebaum, Vranas

## PHILOSOPHY, B.A.

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science,



politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## HOW TO GET IN

Students should inform the philosophy office of their intention to major and be assigned an advisor within the department. More information can be found at major declaration ([http://philosophy.wisc.edu/undergraduate/major\\_declaration.php](http://philosophy.wisc.edu/undergraduate/major_declaration.php)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall  
30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison  
2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

The minimum requirement for the major is **eight conventionally graded philosophy courses** amounting to at least **27 credits**. These credits must include:

Code	Title	Credits
PHILOS 211	Elementary Logic (or equivalent; should be taken as early as possible)	3-4
or PHILOS 511	Symbolic Logic	
PHILOS 430 & PHILOS 432	History of Ancient Philosophy and History of Modern Philosophy (or equivalent; recommended to be taken in the sophomore or junior year)	6-8
Select a total of five PHILOS courses, which are 3 credits or more, from any course designated in the Schedule of Classes (Course Guide) as 400 or above <sup>1</sup>		15
Select at least one course from Category A		3-4
Select at least one course from Category B		3-4

<sup>1</sup> Excluding the following courses: PHILOS/JEWISH 442 Moral Philosophy and the Holocaust, PHILOS/MED HIST 505 Justice and Health Care, PHILOS/ED POL 545 Philosophical Conceptions of Teaching and Learning, PHILOS/MED HIST 558 Ethical Issues in Health Care, PHILOS/MATH 571 Mathematical Logic, , PHILOS 599 Directed Study, , PHILOS 681 Senior Honors Thesis, PHILOS 682 Senior Honors Thesis, PHILOS 691 Senior Thesis, PHILOS 692 Senior Thesis, and PHILOS 699 Directed Study.

## CATEGORY A

Code	Title	Credits
PHILOS/RELIG ST 501	Philosophy of Religion	3-4
PHILOS 503	Theory of Knowledge	3
PHILOS 516	Language and Meaning	3
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 530	Freedom Fate and Choice	3
PHILOS 551	Philosophy of Mind	3
PHILOS 560	Metaphysics	3

## CATEGORY B

Code	Title	Credits
PHILOS 241	Introductory Ethics	3-4
PHILOS 253	Philosophy of the Arts	3-4
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 553	Aesthetics	3
PHILOS 555	Political Philosophy	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all PHILOS courses and courses that count for the major  
2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup> 15 credits in PHILOS, taken on campus

<sup>1</sup>Philosophy courses of at least 3 credits at the 400 level or higher count as upper level in the major, with the exception of the following:

Code	Title	Credits
PHILOS/JEWISH 442	Moral Philosophy and the Holocaust	3
PHILOS/MED HIST 505	Justice and Health Care	3

PHILOS/ED POL 545	Philosophical Conceptions of Teaching and Learning	3
PHILOS/MED HIST 558	Ethical Issues in Health Care	3
PHILOS/MATH 571	Mathematical Logic	3
PHILOS 599	Directed Study	1-3
PHILOS 681	Senior Honors Thesis	1-3
PHILOS 682	Senior Honors Thesis	3
PHILOS 691	Senior Thesis	3
PHILOS 692	Senior Thesis	3
PHILOS 699	Directed Study	2-3

**Course Projections:** Detailed descriptions of the content and format for future course offerings will be available at [philosophy.wisc.edu](http://philosophy.wisc.edu) (<http://philosophy.wisc.edu>) several weeks prior to the commencement of the semester/term.

## SENIOR THESIS

Students who wish to enroll for such work (PHILOS 691 Senior Thesis-PHILOS 692 Senior Thesis) should consult their advisors.

## HONORS IN THE MAJOR

Students may declare Honors in the Philosophy Major in consultation with the Philosophy undergraduate advisor.

## HONORS IN THE PHILOSOPHY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Philosophy students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all PHILOS courses
- Complete an additional course in philosophy from either Category A or Category B (above) with a grade of B or better
- Complete a two-semester Senior Honors Thesis in PHILOS 681 Senior Honors Thesis for 1–3 credits and PHILOS 682 Senior Honors Thesis for 3 credits, with a grade of AB or better.<sup>1</sup>

<sup>1</sup> Students will not be permitted to write a Senior Honors Thesis unless they have taken at least one advanced course on the topic on which they will be writing. Credits earned by writing a Senior Honors Thesis will not count toward the minimal number of credits required for Honors in the Major.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)
- "Why Study" page: <http://philosophy.wisc.edu/undergraduate/whystudy>

## LEARNING OUTCOMES

1. Ability to think critically about arguments.
2. Ability to interpret complex texts accurately and analyze them logically.
3. Ability to communicate precisely and concisely in both writing and speech.
4. Familiarity with the history of Western philosophy and the major debates within that tradition.
5. Ability to be engaged citizens who think carefully and well about their responsibilities to others.
6. Ability to exchange reasons about controversial matters respectfully and with the aim of uncovering the truth.
7. Interpretative charity and intellectual honesty, which includes appropriate attribution to others of their ideas, and recognition and frankness about the limitations of one's own ideas.

## ADVISING AND CAREERS

### ADVISING

The Department of Philosophy encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Philosophy majors develop important and widely marketable skills, like the ability to think critically, communicate clearly, and solve complex problems. This means that getting a degree in philosophy provides excellent preparation for a variety of careers.

Studying philosophy can also help you get into graduate school. Philosophy majors excel on standardized tests like the GRE, GMAT, and LSAT. They rank first among all majors on the verbal and the analytical section of the GRE. Philosophy majors also tend to do better than just about any other major on the LSAT. With a mean score of just over 157, they are second only to physics majors. When it comes to the GMAT, philosophy majors rank in the top five of all majors, and they consistently have higher scores than business majors (including management, finance, accounting, and marketing majors).

**Career Resources:**

## PEOPLE

Professors Bengson, Brighthouse, Fletcher, Gibson, Gottlieb, Hausman, Kelleher, Mackay, Masrour, Messina, Nadler, Paul, Schectman, Shafer-Landau, Shapiro, Sidelle, Sober, Southgate, Steinberg, Streiffer, Titlebaum, Vranas

## RESOURCES AND SCHOLARSHIPS

### UNDERGRADUATE SCHOLARSHIPS

The Department of Philosophy has received generous support in order to fund two scholarships each academic year.

The **Charles Manthey Winter Philosophy Scholarship** is given to a major in philosophy who will graduate within the next four terms of the award and who has at least a 3.5 grade point average over the past two terms, and who can demonstrate financial need.

The **Colonel Jerome Ellis Goodrich, USMC (retired), Scholarship** is awarded to an undergraduate major in philosophy with academic merit and financial need, and who is a U.S. citizen.

Applications for these scholarships are typically due in early April and winners are honored at our annual Awards Banquet in May.

We also have an annual paper prize called the **Temkin Undergraduate Essay Prize in Value Theory**. This prize recognizes an outstanding essay in value theory, where this is construed quite broadly to include topics in political philosophy, philosophy of law, metaethics, applied ethics, etc. Essays are typically submitted in early April and the winner is also honored at our Awards Banquet.

If you have any questions about these scholarships or essay prize, you may send an email to [frontoffice@philosophy.wisc.edu](mailto:frontoffice@philosophy.wisc.edu).

## PHILOSOPHY, B.S.

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science, politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental

and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## HOW TO GET IN

Students should inform the philosophy office of their intention to major and be assigned an advisor within the department. More information can be found at major declaration ([http://philosophy.wisc.edu/undergraduate/major\\_declaration.php](http://philosophy.wisc.edu/undergraduate/major_declaration.php)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework

Depth of Intermediate/Advanced work

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

The minimum requirement for the major is **eight conventionally graded philosophy courses** amounting to at least **27 credits**. These credits must include:

Code	Title	Credits
PHILOS 211	Elementary Logic (or equivalent; should be taken as early as possible)	3-4
or PHILOS 511	Symbolic Logic	
PHILOS 430 & PHILOS 432	History of Ancient Philosophy and History of Modern Philosophy (or equivalent; recommended to be taken in the sophomore or junior year)	6-8

Select a total of five PHILOS courses, which are 3 credits or more, from any course designated in the Schedule of Classes (Course Guide) as 400 or above <sup>1</sup>

Select at least one course from Category A 3-4

Select at least one course from Category B

3-4 philosophy.wisc.edu) several weeks prior to the commencement of the semester/term.

<sup>1</sup> Excluding the following courses: PHILOS/JEWISH 442 Moral Philosophy and the Holocaust, PHILOS/MED HIST 505 Justice and Health Care, PHILOS/ED POL 545 Philosophical Conceptions of Teaching and Learning, PHILOS/MED HIST 558 Ethical Issues in Health Care, PHILOS/MATH 571 Mathematical Logic, , PHILOS 599 Directed Study, , PHILOS 681 Senior Honors Thesis, PHILOS 682 Senior Honors Thesis, PHILOS 691 Senior Thesis, PHILOS 692 Senior Thesis, and PHILOS 699 Directed Study.

## CATEGORY A

Code	Title	Credits
PHILOS/ RELIG ST 501	Philosophy of Religion	3-4
PHILOS 503	Theory of Knowledge	3
PHILOS 516	Language and Meaning	3
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 530	Freedom Fate and Choice	3
PHILOS 551	Philosophy of Mind	3
PHILOS 560	Metaphysics	3

## CATEGORY B

Code	Title	Credits
PHILOS 241	Introductory Ethics	3-4
PHILOS 253	Philosophy of the Arts	3-4
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 553	Aesthetics	3
PHILOS 555	Political Philosophy	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all PHILOS courses and courses that count for the major  
2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup> 15 credits in PHILOS, taken on campus

<sup>1</sup>Philosophy courses of at least 3 credits at the 400 level or higher count as upper level in the major, with the exception of the following:

Code	Title	Credits
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PHILOS/ MED HIST 505	Justice and Health Care	3
PHILOS/ED POL 545	Philosophical Conceptions of Teaching and Learning	3
PHILOS/ MED HIST 558	Ethical Issues in Health Care	3
PHILOS/MATH 571	Mathematical Logic	3
PHILOS 599	Directed Study	1-3
PHILOS 681	Senior Honors Thesis	1-3
PHILOS 682	Senior Honors Thesis	3
PHILOS 691	Senior Thesis	3
PHILOS 692	Senior Thesis	3
PHILOS 699	Directed Study	2-3

**Course Projections:** Detailed descriptions of the content and format for future course offerings will be available at philosophy.wisc.edu (<http://>

## SENIOR THESIS

Students who wish to enroll for such work (PHILOS 691 Senior Thesis-PHILOS 692 Senior Thesis) should consult their advisors.

## HONORS IN THE MAJOR

Students may declare Honors in the Philosophy Major in consultation with the Philosophy undergraduate advisor.

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To earn a B.A. or B.S. with Honors in the Major in Philosophy students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all PHILOS courses
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<sup>1</sup> Students will not be permitted to write a Senior Honors Thesis unless they have taken at least one advanced course on the topic on which they will be writing. Credits earned by writing a Senior Honors Thesis will not count toward the minimal number of credits required for Honors in the Major.

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

## LEARNING OUTCOMES

1. Ability to think critically about arguments.
2. Ability to interpret complex texts accurately and analyze them logically.

3. Ability to communicate precisely and concisely in both writing and speech.
4. Familiarity with the history of Western philosophy and the major debates within that tradition.
5. Ability to be engaged citizens who think carefully and well about their responsibilities to others.
6. Ability to exchange reasons about controversial matters respectfully and with the aim of uncovering the truth.
7. Interpretative charity and intellectual honesty, which includes appropriate attribution to others of their ideas, and recognition and frankness about the limitations of one's own ideas.

## ADVISING AND CAREERS

### ADVISING

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#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)
- "Why Study" page: <http://philosophy.wisc.edu/undergraduate/whystudy>

## PEOPLE

Professors Bengson, Brighthouse, Fletcher, Gibson, Gottlieb, Hausman, Kelleher, Mackay, Masrour, Messina, Nadler, Paul, Schectman, Shafer-Landau, Shapiro, Sidelle, Sober, Southgate, Steinberg, Streiffer, Titlebaum, Vranas

## RESOURCES AND SCHOLARSHIPS

### UNDERGRADUATE SCHOLARSHIPS

The Department of Philosophy has received generous support in order to fund two scholarships each academic year.

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The **Colonel Jerome Ellis Goodrich, USMC (retired), Scholarship** is awarded to an undergraduate major in philosophy with academic merit and financial need, and who is a U.S. citizen.

Applications for these scholarships are typically due in early April and winners are honored at our annual Awards Banquet in May.

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If you have any questions about these scholarships or essay prize, you may send an email to [frontoffice@philosophy.wisc.edu](mailto:frontoffice@philosophy.wisc.edu).

## PHYSICS

The Department of Physics has a long history of providing students with a great educational experience. The department awarded its first Ph.D. in 1899. Since then, physics students have earned degrees in virtually every area of physics, and the department's faculty has played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

### CHOOSE TO BE A PHYSICS MAJOR

#### WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.
- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.
- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.

- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

## YOUR FUTURE IS SO BRIGHT . . .

A degree in physics helps prepare students for employment in industry, research, government, and academia. A bachelor's degree from the undergraduate physics program will provide an overall view of both classical and modern physics along with problem-solving ability and the flexibility to continue learning.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

## PHYSICS MENTOR PROGRAM

Any student contemplating becoming a physics major is encouraged to obtain a faculty mentor. A mentor is a faculty member with whom students can discuss physics, courses, careers, graduate schools, aspirations, etc. Mentors are not primarily academic advisors. Information is available at the department office.

## OTHER PROGRAMS

### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 914) is described in its own section of The Guide.

### Astronomy-Physics

Students interested in an astronomy–physics major should contact the astronomy department (p. 414).

### Education-Physics

A student working toward the Bachelor of Science–Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1226). Upon request, the physics department will assign an advisor.

### Medical-Physics

A suggested curriculum for students interested in graduate study in medical physics is available in the medical physics (<https://www.medphysics.wisc.edu>) department office.

- Physics, Certificate (p. 1013)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai>), Associate Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin>), Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger>), Professor

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislaboldyrev>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar>), Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung>), Professor

Susan Coppersmith (<https://www.physics.wisc.edu/people/susan-coppersmith>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal>), Associate Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson>), Professor

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett>), Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-forest>), Professor

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert>), Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-halzen>), Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson>), Professor

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-herndon>), Professor

Lev Ioffe, Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-jjoynt>), Professor

## DEGREES/MAJORS/CERTIFICATES

- Physics, B.A. (p. 1000)
- Physics, B.S. (p. 1006)

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle>),  
Department Chairperson and Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler>),  
Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko>),  
Assistant Professor

Chun Lin (<https://www.physics.wisc.edu/people/chun-clin>), Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon>), Professor and Undergraduate Advisor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott>), Professor

Marshall Onellion (<https://www.physics.wisc.edu/people/marshall-fonellion>), Professor

Kimberly Palladino (<https://www.physics.wisc.edu/people/kimberly-jpalladino>), Assistant Professor

Yibin Pan (<https://www.physics.wisc.edu/people/yibinpan>), Associate Professor

Mark Rzchowski (<https://www.physics.wisc.edu/people/markrzchowski>),  
Associate Chair and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman>),  
Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu>), Professor

Wesley Smith (<https://www.physics.wisc.edu/people/wesley-hsmith>),  
Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-ttimbie>),  
Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke>), Assistant Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov>),  
Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker>),  
Professor

Stefan Westerhoff (<https://www.physics.wisc.edu/people/stefanwesterhoff>), Professor and Undergraduate Advisor

Michael Winokur (<https://www.physics.wisc.edu/people/michael-jwinokur>), Professor and Undergraduate Advisor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu>),  
Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz>),  
Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel>),  
Professor

## PHYSICS, B.A.

### WELCOME TO THE UW-MADISON DEPARTMENT OF PHYSICS

We have a long history of providing our students with a great educational experience. Our physics department awarded its first Ph.D. in 1899. Since then, our students have earned degrees in virtually every area of physics, and our faculty have played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

### CHOOSE TO BE A PHYSICS MAJOR WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.
- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.
- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.
- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

### YOUR FUTURE IS SO BRIGHT...

A degree in physics helps prepare you for employment in industry, research, government, and academia. A bachelor's degree from the undergraduate physics program will provide an overall view of both classical and modern physics along with problem-solving ability and the flexibility to continue learning.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.



- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor

## PHYSICS MENTOR PROGRAM

Any student contemplating becoming a physics major is encouraged to obtain a faculty mentor. A mentor is a faculty member with whom students can discuss physics, courses, careers, graduate schools, aspirations, etc. Mentors are not primarily academic advisors. Information is available at the department office.

## OTHER PROGRAMS

### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 914) is described in its own section of The Guide.

### Astronomy-Physics

Students interested in an astronomy–physics major should contact the astronomy department (p. 414).

### Education-Physics

A student working toward the Bachelor of Science–Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1226). Upon request, the physics department will assign an advisor.

### Medical-Physics

A suggested curriculum for students interested in graduate study in medical physics is available in the medical physics (<https://www.medphysics.wisc.edu>) department office.

## HOW TO GET IN

### TO DECLARE A PHYSICS MAJOR

Students must declare the physics major by filing out a major declaration form, signed by a physics undergraduate advisor. They should talk with one of the undergraduate advisors as soon as they know they might have an interest in the physics major. Students can declare their physics major at any time after completing their first physics course on the UW–Madison campus, and we encourage them to do this as early as possible. They must have a 2.5 GPA in physics and math courses taken at UW–Madison at the time they declare. In all cases, the major must be declared before the semester of graduation. The form can be obtained at the department office in 2320 Chamberlin Hall. *Note:* Students should bring a copy of their current course history when they talk with the undergraduate advisor.

### ENGINEERING AND OTHER NON-L&S MAJORS SEEKING AN ADDITIONAL MAJOR IN PHYSICS

An undergraduate in any college other than Letters & Science (L&S) needs to complete the physics requirements for the physics major, and the L&S residence and quality of work in the major requirements. None of the other requirements of L&S need to be satisfied. Students majoring in any other program that is **not** in L&S require formal approval from the other college to declare the additional major in physics. This process may delay declaring the major in physics.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The physics major requires **35 credits** from the following:

Code	Title	Credits
<b>Requirements for the Major</b>		
<i>Introductory Physics</i>		
Select one of the following First Introductory Courses:		5
PHYSICS 247	A Modern Introduction to Physics (recommended) <sup>1</sup>	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>2</sup>	
E M A 201 & M E 240	Statics and Dynamics <sup>2</sup>	
Select one of the following Second Introductory Courses:		5
PHYSICS 248	A Modern Introduction to Physics (recommended)	
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
Select one of the following Third Introductory Courses:		3-4
PHYSICS 249	A Modern Introduction to Physics (recommended)	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	

<i>Core Physics</i>		3
PHYSICS 311	Mechanics	
Select one of the following options:		3
Option 1:		
PHYSICS 322	Electromagnetic Fields	
Option 2: <sup>3</sup>		
E C E 220	Electrodynamics I	
E C E 320	Electrodynamics II	
E C E 420	Electromagnetic Wave Transmission	
Select one of the following:		3
PHYSICS 415	Thermal Physics	
CHEM 561 & CHEM 562	Physical Chemistry and Physical Chemistry <sup>4</sup>	
M E 361	Thermodynamics	
Select one of the following:		3-6
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics (recommended)	
PHYSICS 531	Introduction to Quantum Mechanics Laboratory <sup>5</sup>	
Select 6 credits from the following:		6
Full registered credit per course:		
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	
PHYSICS 308	Intermediate Laboratory-Electromagnetic Fields and Optics	
PHYSICS 407	Advanced Laboratory	
Two credits applies for each of these courses:		
PHYSICS 321	Electric Circuits and Electronics	
PHYSICS 623	Electronic Aids to Measurement	
PHYSICS 625	Applied Optics	
N E 427	Nuclear Instrumentation Laboratory	
N E 428	Nuclear Reactor Laboratory	
One credit applies for each of these courses:		
E C E 305	Semiconductor Properties Laboratory	
E C E 313	Optoelectronics Lab	
<b>Select additional electives to reach 35-credit minimum for the major.</b>		
<i>Advanced Physics Electives<sup>5</sup></i>		
PHYSICS 301	Physics Today <sup>6</sup>	
PHYSICS 325	Wave Motion and Optics	
PHYSICS 406	Special Topics in Physics	
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	
PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiological Physics and Dosimetry	
PHYSICS 507	Graduate Laboratory	
PHYSICS/E C E/ N E 525	Introduction to Plasmas	
PHYSICS/E C E/ N E 527	Plasma Confinement and Heating	

PHYSICS 535	Introduction to Particle Physics
PHYSICS 545	Introduction to Atomic Structure
PHYSICS/ E C E 546	Lasers
PHYSICS 551	Solid State Physics
PHYSICS/ ANATOMY/ B M E/CHEM/ MED PHYS/ PHMCOL-M/ RADIOL 619	Microscopy of Life

<sup>1</sup> It is recommended that students follow one of the sequences PHYSICS 247–PHYSICS 248, PHYSICS 207–PHYSICS 208, or PHYSICS 201–PHYSICS 202 for the first two courses, and PHYSICS 249 or PHYSICS 241 is strongly recommended for the third course. But any combination can be used to satisfy the requirements, except that students may not transfer into the PHYSICS 247–PHYSICS 248–PHYSICS 249 sequence from another introductory sequence.

<sup>2</sup> A maximum of 5 credits from E M A 201, E M A 202 and M E 240 count toward the 35 required.

<sup>3</sup> A maximum of 3 credits from E C E 220 and E C E 320 and E C E 420 apply toward the 35 required.

<sup>4</sup> A maximum of 3 credits from CHEM 561 and CHEM 562 apply toward the 35 required.

<sup>5</sup> For nonphysics courses, students will receive only the credit applied as lab toward the 35 credits requirement.

<sup>6</sup> It is recommended that the student's program include the seminar PHYSICS 301 Physics Today.

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

- 2.000 GPA in all PHYSICS and major courses
- 2.000 on at least 15 credits in upper-level work taken in residence: courses in Core, Laboratory, and Advanced Physics Electives
- 15 credits in PHYSICS, taken on campus

## DISTINCTION IN THE MAJOR

Distinction in the Major requires no declaration, and is awarded at the time of graduation. Students may not receive Distinction and Honors in the same major. To receive Distinction in the Major, students must have met the following requirements:

- 3.300 university GPA
- 3.300 GPA in all major and major subject (physics) courses
- 6 additional credits in advanced-level physics beyond the minimum required for the major.

## THESIS OF DISTINCTION

An exceptional original thesis will be designated as a Thesis of Distinction upon recommendation by the department.

## MATHEMATICS

MATH 221–MATH 222–MATH 234 or equivalents are necessary since they are prerequisites for other courses.

## CHEMISTRY

A college course in chemistry is advised for all physics students.

## COMPUTING

Students should become familiar with scientific programming using a language such as C or FORTRAN. The computer sciences department offers introductory courses (such as 302). The Division of Information Technology (DoIT) also offers short courses to introduce programming.

## HONORS IN THE MAJOR

Students may declare Honors in this Major in Physics in consultation with their major advisor.

## HONORS IN THE PHYSICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Physics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 university GPA
- Earn a 3.300 GPA in all PHYSICS courses, and all courses accepted in the major
- Complete 12 credits for Honors in courses counting in the major, to include:
  - 9 credits at the advanced level
  - A two-semester Senior Honors Thesis in PHYSICS 681 Senior Honors Thesis and PHYSICS 682 Senior Honors Thesis for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

The physics curriculum is intended to provide a broad and thorough understanding of the fundamental properties and interactions underlying physical phenomena (including mechanical behaviors, electrical and magnetic sources and interactions, light and optics, heat, relativity of space time, quantum mechanics, atomic and nuclear structure, solid state matter, etc). Many students who major in physics as

undergraduates enter graduate schools for work leading to the M.S. or Ph.D. degrees. Others seek employment in a wide range of fields in government, business, and industry. Since current research, both pure and applied, involves interdisciplinary efforts, the broad training of physics with its stress on fundamentals proves to be a valuable experience.

## ADVISING AND CAREERS

### PHYSICS UNDERGRADUATE ADVISORS

**Professor Dan McCammon**

6207 Chamberlin Hall  
608-262-5916

**Professor Stefan Westerhoff**

4209 Chamberlin Hall  
608-262-3989

**Professor Michael Winokur**

5106 Chamberlin Hall  
608-262-5425

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#### AMEP Advisor

**Professor Cary Forest**

3277 Chamberlin Hall  
608.263.0486

### CAREER RESOURCES

The UW Department of Physics encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

#### Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

#### Additional Resources:

- Link to physics department advising page (<https://www.physics.wisc.edu/undergrads/resources/advising>)
- Link to physics department student jobs and research opportunities (<https://www.physics.wisc.edu/resources/employment/student-jobs>)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai>), Associate Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin>), Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger>), Professor

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislaboldyrev>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar>), Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung>), Professor

Susan Coppersmith (<https://www.physics.wisc.edu/people/susan-ncoppersmith>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal>), Associate Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson>), Professor

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett>), Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest>), Professor

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert>), Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen>), Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson>), Professor

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-fherndon>), Professor

Lev Ioffe, Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-jjoynt>), Professor

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle>), Department Chairperson and Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler>), Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko>), Assistant Professor

Chun Lin (<https://www.physics.wisc.edu/people/chun-clin>), Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon>), Professor and Undergraduate Advisor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott>), Professor

Marshall Onellion (<https://www.physics.wisc.edu/people/marshall-fonellion>), Professor

Kimberly Palladino (<https://www.physics.wisc.edu/people/kimberly-jpalladino>), Assistant Professor

Yibin Pan (<https://www.physics.wisc.edu/people/yibinpan>), Associate Professor

Mark Rzchowski (<https://www.physics.wisc.edu/people/markrzchowski>), Associate Chair and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu>), Professor

Wesley Smith (<https://www.physics.wisc.edu/people/wesley-hsmith>), Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-timbie>), Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke>), Assistant Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov>), Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker>), Professor

Stefan Westerhoff (<https://www.physics.wisc.edu/people/stefanwesterhoff>), Professor and Undergraduate Advisor

Michael Winokur (<https://www.physics.wisc.edu/people/michael-jwinokur>), Professor and Undergraduate Advisor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu>), Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel>), Professor

## WISCONSIN EXPERIENCE

### PHYSICS UNDERGRADUATE COLLOQUIUM

There is a weekly series of talks in the spring semester called "Physics Today," at which a topic of local research is described by one of the physics faculty. These are open and may be attended by anyone. They can also be taken as a course, PHYSICS 301 Physics Today. See the Course Guide for location and time.

### THE PHYSICS CLUB

The University Physical Society (UPS)—also known as the Physics Club—is a student organization for people interested in physics and related fields.

#### WHAT DOES THE PHYSICS CLUB DO?

The Physics Club organizes events such as seminars, tours, trips, and socials for its members. Physics Club volunteers also offer free drop-in tutoring to students in introductory physics and astronomy classes. In addition, we maintain subscriptions to science related magazines such as *Scientific American*, *Astronomy*, and *Physics Today*, which are kept in the club's room located at 2328 Chamberlin Hall. Every Friday afternoon, we meet with the physics colloquium speaker to learn about the process of becoming a scientist. In addition, UPS sponsors a variety of other events. For example, in the past, we have taken a field trip to Fermilab, sponsored a racquetball tournament, and have frequently gathered for social events such as ice skating, movie night, and bowling.

#### WHY SHOULD YOU JOIN THE PHYSICS CLUB?

By joining the Physics Club you'll be meeting many physics majors, who are, in general, really cool people to hang out with. If you are thinking about declaring a physics major, this is the place to come for helpful advice about taking classes and finding undergraduate job in the physics department. If you join, you can get access to the Physics Club room, 2328 Chamberlin Hall. Joining also adds you to the club email list, so you can be notified about club sponsored events.

#### PERKS OF BEING A PHYSICS CLUB MEMBER

When you join the Physics Club, you get access to an excellent room, 2328 Chamberlin Hall. This room contains a refrigerator, reference shelves of textbooks, couch, tables, and chairs, a phone, blackboards, and a microwave. We have several computers in the room. You can get your own key to the room and visit at your leisure, and stay as long as you like. Plus, you get the added bonus of knowing people who are in your classes.

#### University Physical Society

2328 Chamberlin Hall

[ups.physics.wisc.edu](https://www.physics.wisc.edu)

[ups-officers@googlegroups.com](mailto:ups-officers@googlegroups.com)

#### To Join:

Drop by Room 2328 Chamberlin Hall and pick up a membership form.

Turn in a completed form with your \$5 annual dues to a UPS club officer.

### PHYSICS LEARNING CENTER

The Physics Learning Center: Striving to help all students succeed in Physics

- Do you enjoy Physics?
- Are you patient?
- Do you like to teach?
- Would you like to help other undergraduate students?

The Physics Learning Center (PLC) matches upper-level undergraduate students as tutor/mentors in small study groups with students studying introductory physics (algebra-based PHYSICS 103–PHYSICS 104 and calculus-based PHYSICS 207–PHYSICS 208). Physics Peer Mentor Tutors meet twice a week with the same small group of students to overview key concepts, choose and supervise practice problems, answer questions, and serve as a mentor. We strive to create a supportive learning environment to help students gain skills, increase confidence, and meet potential study partners.

Peer mentor tutors receive extensive training in teaching physics and in general pedagogy. Tutors meet with a PLC staff member each week to discuss strategies for teaching course content, including how to use teaching materials that stress conceptual understanding. In addition, tutors from all courses meet as a group for a weekly teaching seminar to discuss issues such as group dynamics, techniques for actively involving students in learning, helping students to prepare for exams, raising awareness of diversity in student experiences, resources on campus, and so on.

Our peer mentor tutors report that they greatly enjoy working with their students and in the process strengthen their own foundation in physics and presentation skills. They also tell us that teaching physics helps to review for the Graduate Record Exam and to prepare for postgraduate teaching in middle/high school or as a university teaching assistant. Most tutors are upper-class students majoring in physics, astrophysics, secondary science education, and engineering. We also welcome students from other fields if they have a strong physics background. Students receive either independent study credit or a stipend for participation in the Physics Peer Mentor Tutor program. To apply, please submit a resume, your transcript (unofficial copy is fine), and a short statement about why you would like to be a physics peer mentor tutor (½–1 page).

**Physics Learning Center**  
2337/2338 Chamberlin Hall  
**Contact:** Susan Nossal  
2328 Chamberlin Hall  
nossal@physics.wisc.edu  
608-262-9107

## RESOURCES AND SCHOLARSHIPS

### STUDENT AWARDS

**The Fay Ajzenberg-Selove Award** is presented to undergraduate women majoring in physics, astronomy, or physics/astronomy for the purpose of encouraging women to continue their careers in science. Dr. Ajzenberg-Selove, who received her Ph.D. in physics in 1952, is currently a professor emerita the University of Pennsylvania.

**The Dr. Maritza Irene Stapanian Crabtree Award** in physics was established by William Crabtree to honor his wife, Dr. Maritza Crabtree, who graduated with a physics degree in 1971. This annual award benefits undergraduate students in physics based equally on merit and need. The Bernice Durand Undergraduate Research Scholarship was established by Vice Provost/Physics Professor Bernice Durand to promote meaningful undergraduate research opportunities and to

support and encourage women and ethnic minorities as undergraduate majors in the departments of physics and astronomy.

**The Henry and Eleanor Firminhac Physics Undergraduate Scholarship** is given to undergraduates in physics with financial need as the primary consideration. Funding provided by Ralph Firminhac in honor of his parents.

**The L. R. Ingersoll Prize** is given for distinguished achievement in introductory physics. This prize is underwritten by a fund established by the family and friends of the late Professor Ingersoll, a distinguished physicist and teacher at the university who served as department chair for many years.

**The Liebenberg Family Research Scholarship** is for physics, AMEP (applied mathematics, engineering, and physics) or astronomy/physics majors. This scholarship opportunity was initiated by the Liebenberg family for the purpose of promoting undergraduate summer research opportunities.

**The Albert Augustus Radtke Scholarship Award** is given to outstanding junior or senior students majoring in physics or AMEP. This award was made possible by a bequest of the late Mrs. Elizabeth S. Radtke in honor of her husband, a 1900 degree recipient from UW–Madison.

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**For more information.** Go to [www.physics.wisc.edu/awards](http://www.physics.wisc.edu/awards) (<https://www.physics.wisc.edu/awards>) or contact [info@physics.wisc.edu](mailto:info@physics.wisc.edu).

**Application Process.** The deadline for student application materials is March 15th. No late applications will be accepted.

**To Apply.** Please submit a statement of interest and how this award would help your education. If it is an award that is for financial need (Crabtree and Firminhac) you need to emphasize what the need is. If the award you are applying for also has a merit requirement, the department will run your transcript.

## PHYSICS, B.S.

The Department of Physics has a long history of providing students with a great educational experience. The department awarded its first Ph.D. in 1899. Since then, physics students have earned degrees in virtually every area of physics, and the department's faculty has played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

### CHOOSE TO BE A PHYSICS MAJOR WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.
- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.

- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.
- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

## YOUR FUTURE IS SO BRIGHT . . .

A degree in physics helps prepare students for employment in industry, research, government, and academia. A bachelor's degree from the undergraduate physics program will provide an overall view of both classical and modern physics along with problem-solving ability and the flexibility to continue learning.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

## PHYSICS MENTOR PROGRAM

Any student contemplating becoming a physics major is encouraged to obtain a faculty mentor. A mentor is a faculty member with whom students can discuss physics, courses, careers, graduate schools, aspirations, etc. Mentors are not primarily academic advisors. Information is available at the department office.

## OTHER PROGRAMS

### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 914) is described in its own section of The Guide.

### Astronomy-Physics

Students interested in an astronomy–physics major should contact the astronomy department (p. 414).

### Education-Physics

A student working toward the Bachelor of Science–Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1226). Upon request, the physics department will assign an advisor.

## Medical-Physics

A suggested curriculum for students interested in graduate study in medical physics is available in the medical physics (<https://www.medphysics.wisc.edu>) department office.

## HOW TO GET IN

### TO DECLARE A PHYSICS MAJOR

Students must declare the physics major by filing out a major declaration form, signed by a physics undergraduate advisor. They should talk with one of the undergraduate advisors as soon as they know they might have an interest in the physics major. Students can declare their physics major at any time after completing their first physics course on the UW–Madison campus, and we encourage them to do this as early as possible. They must have a 2.5 GPA in physics and math courses taken at UW–Madison at the time they declare. In all cases, the major must be declared before the semester of graduation. The form can be obtained at the department office in 2320 Chamberlin Hall. *Note:* Students should bring a copy of their current course history when they talk with the undergraduate advisor.

### ENGINEERING AND OTHER NON-L&S MAJORS SEEKING AN ADDITIONAL MAJOR IN PHYSICS

An undergraduate in any college other than Letters & Science (L&S) needs to complete the physics requirements for the physics major, and the L&S residence and quality of work in the major requirements. None of the other requirements of L&S need to be satisfied. Students majoring in any other program that is **not** in L&S require formal approval from the other college to declare the additional major in physics. This process may delay declaring the major in physics.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

The physics major requires **35 credits** from the following:

Code	Title	Credits
<b>Requirements for the Major</b>		
<i>Introductory Physics</i>		
Select one of the following First Introductory Courses:		5
PHYSICS 247	A Modern Introduction to Physics (recommended) <sup>1</sup>	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>2</sup>	
E M A 201 & M E 240	Statics and Dynamics <sup>2</sup>	
Select one of the following Second Introductory Courses:		5
PHYSICS 248	A Modern Introduction to Physics (recommended)	
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
Select one of the following Third Introductory Courses:		3-4
PHYSICS 249	A Modern Introduction to Physics (recommended)	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	
<i>Core Physics</i>		3
PHYSICS 311	Mechanics	
Select one of the following options:		3
Option 1:		
PHYSICS 322	Electromagnetic Fields	
Option 2: <sup>3</sup>		
E C E 220	Electrodynamics I	
E C E 320	Electrodynamics II	
E C E 420	Electromagnetic Wave Transmission	
Select one of the following:		3
PHYSICS 415	Thermal Physics	
CHEM 561 & CHEM 562	Physical Chemistry and Physical Chemistry <sup>4</sup>	
M E 361	Thermodynamics	
Select one of the following:		3-6
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics (recommended)	
PHYSICS 531	Introduction to Quantum Mechanics	



**Laboratory**<sup>5</sup>

Select 6 credits from the following: 6

Full registered credit per course:

PHYSICS 307 Intermediate Laboratory-Mechanics and Modern Physics

PHYSICS 308 Intermediate Laboratory-Electromagnetic Fields and Optics

PHYSICS 407 Advanced Laboratory

Two credits applies for each of these courses:

PHYSICS 321 Electric Circuits and Electronics

PHYSICS 623 Electronic Aids to Measurement

PHYSICS 625 Applied Optics

N E 427 Nuclear Instrumentation Laboratory

N E 428 Nuclear Reactor Laboratory

One credit applies for each of these courses:

E C E 305 Semiconductor Properties Laboratory

E C E 313 Optoelectronics Lab

**Select additional electives to reach 35-credit minimum for the major:***Advanced Physics Electives*<sup>5</sup>PHYSICS 301 Physics Today<sup>6</sup>

PHYSICS 325 Wave Motion and Optics

PHYSICS 406 Special Topics in Physics

PHYSICS/ ENVIR ST 472 Scientific Background to Global Environmental Problems

PHYSICS/B M E/ H ONCOL/ MED PHYS 501 Radiological Physics and Dosimetry

PHYSICS 507 Graduate Laboratory

PHYSICS/E C E/ N E 525 Introduction to Plasmas

PHYSICS/E C E/ N E 527 Plasma Confinement and Heating

PHYSICS 535 Introduction to Particle Physics

PHYSICS 545 Introduction to Atomic Structure

PHYSICS/ E C E 546 Lasers

PHYSICS 551 Solid State Physics

PHYSICS/ ANATOMY/

B M E/CHEM/

MED PHYS/

PHMCOL-M/

RADIOL 619 Microscopy of Life

<sup>1</sup> It is recommended that students follow one of the sequences PHYSICS 247–PHYSICS 248, PHYSICS 207–PHYSICS 208, or PHYSICS 201–PHYSICS 202 for the first two courses, and PHYSICS 249 or PHYSICS 241 is strongly recommended for the third course. But any combination can be used to satisfy the requirements, except that students may not transfer into the PHYSICS 247–PHYSICS 248–PHYSICS 249 sequence from another introductory sequence.

<sup>2</sup> A maximum of 5 credits from E M A 201, E M A 202 and M E 240 count toward the 35 required.

<sup>3</sup> A maximum of 3 credits from E C E 220 and E C E 320 and E C E 420 apply toward the 35 required.

<sup>4</sup> A maximum of 3 credits from CHEM 561 and CHEM 562 apply toward the 35 required.

<sup>5</sup> For nonphysics courses, students will receive only the credit applied as lab toward the 35 credits requirement.

<sup>6</sup> It is recommended that the student's program include the seminar PHYSICS 301 Physics Today.

**RESIDENCE AND QUALITY OF WORK IN THE MAJOR**

- 2.000 GPA in all PHYSICS and major courses
- 2.000 on at least 15 credits in upper-level work taken in residence: courses in Core, Laboratory, and Advanced Physics Electives
- 15 credits in PHYSICS, taken on campus

**DISTINCTION IN THE MAJOR**

Distinction in the Major requires no declaration, and is awarded at the time of graduation. Students may not receive Distinction and Honors in the same major. To receive Distinction in the Major, students must have met the following requirements:

- 3.300 university GPA
- 3.300 GPA in all major and major subject (physics) courses
- 6 additional credits in advanced-level physics beyond the minimum required for the major.

**THESIS OF DISTINCTION**

An exceptional original thesis will be designated as a Thesis of Distinction upon recommendation by the department.

**MATHEMATICS**

MATH 221–MATH 222–MATH 234 or equivalents are necessary since they are prerequisites for other courses.

**CHEMISTRY**

A college course in chemistry is advised for all physics students.

**COMPUTING**

Students should become familiar with scientific programming using a language such as C or FORTRAN. The computer sciences department offers introductory courses (such as 302). The Division of Information Technology (DoIT) also offers short courses to introduce programming.

**HONORS IN THE MAJOR**

Students may declare Honors in this Major in Physics in consultation with their major advisor.

**HONORS IN THE PHYSICS MAJOR REQUIREMENTS**

To earn a B.A. or B.S. with Honors in the Major in Physics students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 university GPA
- Earn a 3.300 GPA in all PHYSICS courses, and all courses accepted in the major
- Complete 12 credits for Honors in courses counting in the major, to include:

- 9 credits at the advanced level
- A two-semester Senior Honors Thesis in PHYSICS 681 Senior Honors Thesis and PHYSICS 682 Senior Honors Thesis for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

The physics curriculum is intended to provide a broad and thorough understanding of the fundamental properties and interactions underlying physical phenomena (including mechanical behaviors, electrical and magnetic sources and interactions, light and optics, heat, relativity of space time, quantum mechanics, atomic and nuclear structure, solid state matter, etc). Many students who major in physics as undergraduates enter graduate schools for work leading to the M.S. or Ph.D. degrees. Others seek employment in a wide range of fields in government, business, and industry. Since current research, both pure and applied, involves interdisciplinary efforts, the broad training of physics with its stress on fundamentals proves to be a valuable experience.

## ADVISING AND CAREERS

### PHYSICS UNDERGRADUATE ADVISORS

**Professor Dan McCammon**

6207 Chamberlin Hall  
608-262-5916

**Professor Stefan Westerhoff**

4209 Chamberlin Hall  
608-262-3989

**Professor Michael Winokur**

5106 Chamberlin Hall  
608-262-5425

### AMEP Advisor

**Professor Cary Forest**

3277 Chamberlin Hall  
608.263.0486

## CAREER RESOURCES

The UW Department of Physics encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

Additional Resources:

- Link to physics department advising page (<https://www.physics.wisc.edu/undergrads/resources/advising>)
- Link to physics department student jobs and research opportunities (<https://www.physics.wisc.edu/resources/employment/student-jobs>)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai>), Associate Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin>), Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger>), Professor

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislaboldyrev>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar>), Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung>), Professor

Susan Coppersmith (<https://www.physics.wisc.edu/people/susanncoppersmith>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal>), Associate Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson>), Professor

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett>), Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-forest>), Professor

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert>), Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-halzen>), Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson>), Professor

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-herndon>), Professor

Lev Ioffe, Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-joynt>), Professor

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle>), Department Chairperson and Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler>), Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko>), Assistant Professor

Chun Lin (<https://www.physics.wisc.edu/people/chun-clin>), Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon>), Professor and Undergraduate Advisor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott>), Professor

Marshall Onellion (<https://www.physics.wisc.edu/people/marshall-fonellion>), Professor

Kimberly Palladino (<https://www.physics.wisc.edu/people/kimberly-jpalladino>), Assistant Professor

Yibin Pan (<https://www.physics.wisc.edu/people/yibinpan>), Associate Professor

Mark Rzchowski (<https://www.physics.wisc.edu/people/markrzchowski>), Associate Chair and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu>), Professor

Wesley Smith (<https://www.physics.wisc.edu/people/wesley-hsmith>), Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-timbie>), Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke>), Assistant Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov>), Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker>), Professor

Stefan Westerhoff (<https://www.physics.wisc.edu/people/stefanwesterhoff>), Professor and Undergraduate Advisor

Michael Winokur (<https://www.physics.wisc.edu/people/michael-jwinokur>), Professor and Undergraduate Advisor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu>), Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel>), Professor

## WISCONSIN EXPERIENCE

### PHYSICS UNDERGRADUATE COLLOQUIUM

There is a weekly series of talks in the spring semester called "Physics Today," at which a topic of local research is described by one of the physics faculty. These are open and may be attended by anyone. They can also be taken as a course, PHYSICS 301 Physics Today. See the Course Guide for location and time.

### THE PHYSICS CLUB

The University Physical Society (UPS)—also known as the Physics Club—is a student organization for people interested in physics and related fields.

### WHAT DOES THE PHYSICS CLUB DO?

The Physics Club organizes events such as seminars, tours, trips, and socials for its members. Physics Club volunteers also offer free drop-in tutoring to students in introductory physics and astronomy classes. In addition, we maintain subscriptions to science related magazines such as *Scientific American*, *Astronomy*, and *Physics Today*, which are kept in the club's room located at 2328 Chamberlin Hall. Every Friday afternoon, we meet with the physics colloquium speaker to learn about the process of becoming a scientist. In addition, UPS sponsors a variety of other events.

For example, in the past, we have taken a field trip to Fermilab, sponsored a racquetball tournament, and have frequently gathered for social events such as ice skating, movie night, and bowling.

## WHY SHOULD YOU JOIN THE PHYSICS CLUB?

By joining the Physics Club you'll be meeting many physics majors, who are, in general, really cool people to hang out with. If you are thinking about declaring a physics major, this is the place to come for helpful advice about taking classes and finding undergraduate job in the physics department. If you join, you can get access to the Physics Club room, 2328 Chamberlin Hall. Joining also adds you to the club email list, so you can be notified about club sponsored events.

## PERKS OF BEING A PHYSICS CLUB MEMBER

When you join the Physics Club, you get access to an excellent room, 2328 Chamberlin Hall. This room contains a refrigerator, reference shelves of textbooks, couch, tables, and chairs, a phone, blackboards, and a microwave. We have several computers in the room. You can get your own key to the room and visit at your leisure, and stay as long as you like. Plus, you get the added bonus of knowing people who are in your classes.

### University Physical Society

2328 Chamberlin Hall  
ups.physics.wisc.edu  
ups-officers@googlegroups.com

#### To Join:

Drop by Room 2328 Chamberlin Hall and pick up a membership form. Turn in a completed form with your \$5 annual dues to a UPS club officer.

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## PHYSICS LEARNING CENTER

The Physics Learning Center: Striving to help all students succeed in Physics

- Do you enjoy Physics?
- Are you patient?
- Do you like to teach?
- Would you like to help other undergraduate students?

The Physics Learning Center (PLC) matches upper-level undergraduate students as tutor/mentors in small study groups with students studying introductory physics (algebra-based PHYSICS 103–PHYSICS 104 and calculus-based PHYSICS 207–PHYSICS 208). Physics Peer Mentor Tutors meet twice a week with the same small group of students to overview key concepts, choose and supervise practice problems, answer questions, and serve as a mentor. We strive to create a supportive learning environment to help students gain skills, increase confidence, and meet potential study partners.

Peer mentor tutors receive extensive training in teaching physics and in general pedagogy. Tutors meet with a PLC staff member each week to discuss strategies for teaching course content, including how to use teaching materials that stress conceptual understanding. In addition, tutors from all courses meet as a group for a weekly teaching seminar to discuss issues such as group dynamics, techniques for actively involving students in learning, helping students to prepare for exams, raising awareness of diversity in student experiences, resources on campus, and so on.

Our peer mentor tutors report that they greatly enjoy working with their students and in the process strengthen their own foundation in physics and presentation skills. They also tell us that teaching physics helps to review for the Graduate Record Exam and to prepare for postgraduate

teaching in middle/high school or as a university teaching assistant. Most tutors are upper-class students majoring in physics, astrophysics, secondary science education, and engineering. We also welcome students from other fields if they have a strong physics background. Students receive either independent study credit or a stipend for participation in the Physics Peer Mentor Tutor program. To apply, please submit a resume, your transcript (unofficial copy is fine), and a short statement about why you would like to be a physics peer mentor tutor (½–1 page).

### Physics Learning Center

2337/2338 Chamberlin Hall

**Contact:** Susan Nossal

2328 Chamberlin Hall

nossal@physics.wisc.edu

608-262-9107

## RESOURCES AND SCHOLARSHIPS

### STUDENT AWARDS

**The Fay Ajzenberg-Selove Award** is presented to undergraduate women majoring in physics, astronomy, or physics/astronomy for the purpose of encouraging women to continue their careers in science. Dr. Ajzenberg-Selove, who received her Ph.D. in physics in 1952, is currently a professor emerita at the University of Pennsylvania.

**The Dr. Maritza Irene Stapanian Crabtree Award** in physics was established by William Crabtree to honor his wife, Dr. Maritza Crabtree, who graduated with a physics degree in 1971. This annual award benefits undergraduate students in physics based equally on merit and need. The Bernice Durand Undergraduate Research Scholarship was established by Vice Provost/Physics Professor Bernice Durand to promote meaningful undergraduate research opportunities and to support and encourage women and ethnic minorities as undergraduate majors in the departments of physics and astronomy.

**The Henry and Eleanor Firminhac Physics Undergraduate Scholarship** is given to undergraduates in physics with financial need as the primary consideration. Funding provided by Ralph Firminhac in honor of his parents.

**The L. R. Ingersoll Prize** is given for distinguished achievement in introductory physics. This prize is underwritten by a fund established by the family and friends of the late Professor Ingersoll, a distinguished physicist and teacher at the university who served as department chair for many years.

**The Liebenberg Family Research Scholarship** is for physics, AMEP (applied mathematics, engineering, and physics) or astronomy/physics majors. This scholarship opportunity was initiated by the Liebenberg family for the purpose of promoting undergraduate summer research opportunities.

**The Albert Augustus Radtke Scholarship Award** is given to outstanding junior or senior students majoring in physics or AMEP. This award was made possible by a bequest of the late Mrs. Elizabeth S. Radtke in honor of her husband, a 1900 degree recipient from UW–Madison.

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**For more information.** Go to [www.physics.wisc.edu/awards](http://www.physics.wisc.edu/awards) (<https://www.physics.wisc.edu/awards>) or contact [info@physics.wisc.edu](mailto:info@physics.wisc.edu).

**Application Process.** The deadline for student application materials is March 15th. No late applications will be accepted.

**To Apply.** Please submit a statement of interest and how this award would help your education. If it is an award that is for financial need (Crabtree and Firminhac) you need to emphasize what the need is. If the award you are applying for also has a merit requirement, the department will run your transcript.

## PHYSICS, CERTIFICATE

The department offers an undergraduate certificate in physics. An understanding of the physical universe informs many disciplines. The study of physics is essential to understanding nature and to advancing technology in the coming century. A certificate in physics increases the opportunities for students to become better informed on technological issues at the local, state, national, and international levels.

The certificate is designed to serve undergraduates majoring in biology, chemistry, mathematics, engineering, education and other fields who wish to extend their study of physics beyond what may be required or recommended for their major without completing the full L&S physics major requirements.

### HOW TO GET IN

To declare a certificate in physics, the student must fill out a major/certificate declaration form. An undergraduate physics advisor must sign the form. The form to declare the certificate can be obtained at the Department of Physics office in 2320 Chamberlin Hall.

### REQUIREMENTS

## PHYSICS CERTIFICATE

1. All undergraduates and Special students are eligible (physics majors are not eligible).
2. The certificate will be awarded upon completion of requirements.
3. At least 9 of the credits must be in residence.
4. Only graded courses may be used toward the certificate.
5. A minimum grade point average of 2.000 is required for courses used toward the certificate.

## REQUIREMENTS FOR THE CERTIFICATE

The physics certificate requires 18 credits of undergraduate PHYSICS courses numbered 200 and higher with the following restrictions:

Code	Title	Credits
<b>Maximum 1 First Introductory Course</b>		
Select one of the following: 5		
PHYSICS 247	A Modern Introduction to Physics (recommended)	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>1</sup>	

E M A 201 & M E 240	Statics and Dynamics <sup>1</sup>	
<b>Maximum 1 Second Introductory Course</b>		
Select one of the following: 5		
PHYSICS 248	A Modern Introduction to Physics (recommended)	
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
<b>Maximum 1 Third Introductory Course</b>		
Select one of the following: 5		
PHYSICS 249	A Modern Introduction to Physics (recommended)	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	
<b>Maximum 3 credits of PHYSICS Directed Study</b>		
Select one of the following: 3		
PHYSICS 298	Directed Study	
PHYSICS 299	Directed Study	
PHYSICS 498	Directed Study	
PHYSICS 499	Directed Study	
Total Credits		18

<sup>1</sup> A maximum of 5 credits from E M A 201 Statics, E M A 202 Dynamics and M E 240 Dynamics count toward the 18 required.

#### Notes:

Students may not transfer into the PHYSICS 247–PHYSICS 248–PHYSICS 249 sequence from another introductory sequence.

No more than 3 credits of independent study and no special topics courses may be used to satisfy this requirement.

## ADVISING AND CAREERS

### PHYSICS UNDERGRADUATE ADVISORS

Professor Dan McCammon  
6207 Chamberlin Hall  
Tel: 608.262.5916

Professor Stefan Westerhoff  
4209 Chamberlin Hall  
Tel: 608.262.3989

Professor Michael Winokur  
5106 Chamberlin Hall  
Tel: 608.262.5425

#### AMEP ADVISOR

Professor Cary Forest  
3277 Chamberlin Hall  
Tel: 608.263.0486

## PEOPLE

## FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai>), Associate Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin>), Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger>), Professor

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislaboldyrev>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar>), Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung>), Professor

Susan Coppersmith (<https://www.physics.wisc.edu/people/susanncoppersmith>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal>), Associate Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/markariksson>), Professor

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett>), Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest>), Professor

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert>), Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen>), Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson>), Professor

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-fherndon>), Professor

Lev Ioffe, Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-jjoynt>), Professor

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle>), Department Chairperson and Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler>), Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko>), Assistant Professor

Chun Lin (<https://www.physics.wisc.edu/people/chun-clin>), Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon>), Professor and Undergraduate Advisor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott>), Professor

Marshall Onellion (<https://www.physics.wisc.edu/people/marshall-fonellion>), Professor

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Yibin Pan (<https://www.physics.wisc.edu/people/yibinpan>), Associate Professor

Mark Rzechowski (<https://www.physics.wisc.edu/people/markrzechowski>), Associate Chair and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff>), Professor

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Michael Winokur (<https://www.physics.wisc.edu/people/michael-jwinokur>), Professor and Undergraduate Advisor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu>), Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel>), Professor

## POLITICAL SCIENCE

There are many definitions of political science. But whether a definition focuses on the analysis of governmental structures, or influences on voter choice, or the relationship between national governments, or the best form of government, at base, political science is about the systematic study of power. Whether power is exercised formally, as is the case between government and the individual, or informally, as is the case between individuals, it is the systematic study of power relationships that provides the subject matter for the discipline. Majors in political science obtain not only an understanding of the workings of government, but they also develop important skills in critical thinking and analysis. These skills make them ideal candidates for careers in law; in government at the state, national, and international levels; in business; in journalism; and in politics.

## DEGREES/MAJORS/CERTIFICATES

- Political Economy, Philosophy, and Politics, Certificate (p. 1015)
- Political Science, B.A. (p. 1016)
- Political Science, B.S. (p. 1022)

## PEOPLE

Professors Burden, Canon, Cramer, Gehlbach, Hendley, Herrera, Marquez, Martin, Mayer, Pevehouse, Schatzberg, Schweber, Shafer, Straus, Tripp, Weimer, Yackee, Zumbrunnen

Associate Professors Ahlquist, Avramenko, Copelovitch, Ewig, Kapust, Kinsella, Kydd, Owens, Ringe, Shelef

Assistant Professors Bhavnani, Lindsay, Lupu, Powell, Renshon, Simmons, Tahk, Weeks

For appointments, see schedule an advising appointment (<http://www.polisci.wisc.edu/undergrad/scheduling-advising-appointment>) on the Political Science Major page on the department website.

## POLITICAL ECONOMY, PHILOSOPHY, AND POLITICS, CERTIFICATE

Why enroll in the political economy, philosophy, and politics certificate?

The political economy, philosophy, and politics (PEPP) certificate is rooted in a core insight: social, economic, and political problems have ethical, political, and economic dimensions. While the first program (politics, philosophy, and economics, or PPE) formally combining these three approaches was created at Oxford University in 1920, it drew on a tradition of inquiry that brought the three perspectives together. Since its creation at Oxford, similar programs have been created at a wide range of the world's leading universities.

If we move from the insight behind the program to what it means in practice, we can see that understanding, for example, immigration requires understanding it from political, economic, and ethical perspectives. In short, understanding the pressing political, economic, or philosophical problems of the day entails seeing them from a perspective that brings together all three disciplines. As a result, the PEPP curriculum

brings together faculty and coursework from three different academic departments: Economics, Philosophy, and Political Science. This cross-disciplinary curriculum is important not just for intellectual development, but also for fostering the habits of mind central to democratic citizenship.

Students who enroll in the PEPP certificate will thus take coursework from political science, economics, and philosophy, and the certificate program will culminate in a small-enrollment, research- and writing-oriented capstone seminar, POLI SCI 461. Combining breadth across the three disciplines with depth within two of the three, the PEPP certificate is a rigorous and exciting opportunity for cross-disciplinary study.

## HOW TO GET IN

Acceptance of applications for the certificate program will begin in fall 2017. Declaration is easy; declare with our online form (<https://polisci.wisc.edu/undergrad/declare-pepp-certificate>).

## REQUIREMENTS

Code	Title	Credits
<b>Certificate Requirements</b>		
Core Breadth		12
Elective Depth		3
Capstone Seminar		3
Total Credits		18

## CORE BREADTH COURSES

Take one course from each of the following four subject areas for a total of 12 credits:

### Economics

Code	Title	Credits
ECON 330	Money and Banking	4
ECON 435	The Financial System	3
ECON 464	International Trade and Finance	3-4
ECON/HISTORY 465	The American Economy to 1865	3-4
ECON/HISTORY 466	The American Economy Since 1865	3-4

### Philosophy

Code	Title	Credits
PHILOS/ECON 524	Philosophy and Economics <sup>1</sup>	3
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 555	Political Philosophy	3
PHILOS 559	Philosophy of Law	3

<sup>1</sup> Although PHILOS/ECON 524 is cross-listed with Economics, it will count only as a Philosophy course.

### Political Science: Political Theory

Code	Title	Credits
POLI SCI 266	The Development of Modern Western Political Thought	3-4
POLI SCI 360	History of American Political Thought	3-4

POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 463	Deception and Politics	4

### Political Science: Institutions and Political Economy

Code	Title	Credits
POLI SCI 274	Political Choice and Strategy	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 356	Principles of International Law	3-4

### ELECTIVE DEPTH COURSE

Take one (1) additional course (3 credits) from the list of courses above in **either** Economics (p. 1015) **or** Philosophy (p. 1015).

### CAPSTONE SEMINAR

Take POLI SCI 461 Interdisciplinary Seminar in Political Economy, Philosophy, & Politics for 3 credits.

### RESIDENCY AND QUALITY OF WORK

- 2.000 GPA in all courses eligible for the certificate
- 9 credits in residence

Courses taken on a pass/fail basis are not eligible to meet requirements in this program.

## LEARNING OUTCOMES

Student Learning Goals

1. Knowing key concepts and arguments from economics, philosophy, and political science.
2. Synthesizing arguments, concepts, and methods from philosophy, politics, and economics.
3. Applying arguments, concepts, and methods from philosophy, politics, and economics to contemporary policy debates.

## ADVISING AND CAREERS

Ricardo Court, Associate Director, Political Economy, Philosophy, and Politics Certificate

301 North Hall

**Appointments: Online Scheduling Assistant** (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/zDhyzyHO.html>)

(Skype appointments available. Please indicate your Skype ID if you will be requesting a remote meeting.)

## PEOPLE

Faculty Director: Daniel Kapust (<https://polisci.wisc.edu/people/faculty/daniel-kapust>), Associate Professor, Political Science

Program Core Faculty with Departmental Affiliation:

- Jim Walker, Professor, Economics
- Maria Muniagurria, Economics
- Daniel Hausman, Professor, Philosophy
- Harry Brighthouse, Professor, Philosophy.
- Daniel Kapust, Associate Professor, Political Science
- Helen Kinsella, Associate Professor, Political Science
- Howard Schweber, Professor, Political Science
- John Zumbrennen, Professor, Political Science
- Genevieve Rousseliere, Assistant Professor, Political Science
- Michelle Schwarze, Assistant Professor, Political Science
- Richard Avramenko, Associate Professor, Political Science

Advising: Ricardo Court, Director of Undergraduate Studies, Political Science

## POLITICAL SCIENCE, B.A.

### WHY STUDY POLITICAL SCIENCE?

Politics have been put under scrutiny in a systematic way since the ancient Greeks. Aristotle even called it the *Queen of the Sciences*. Our own Constitution is the product of both the scholarly study of political theory and a practical framework for political institutions and norms. Our faculty in the Department of Political Science engage politics in a scientific and rigorous way to understand human behavior and world events. Study political science to prepare yourself for a career in campaigns, public policy, business, administration, political advocacy, or public service, but also to become an informed and active citizen.

Political science is a broad and rich discipline. Some of our faculty members conduct research on the psychology of why people behave the way they do politically. Others study institutions such as legislatures, courts, and bureaucracies both as organizations and as political actors themselves. Other faculty members seek to clarify recent constitutional and legal issues. Many study foreign political systems to learn the peculiarities of different political systems comparing them regionally and globally. Our political theorists are intellectual historians and social critics interested in the millennia-long quest for the good society. Still others are policy analysts and dedicated students of American politics. Many are statistical theorists and specialists in surveying political attitudes. Our comparative and international relations experts investigate the causes of war and the conditions for peace among nations.

Political science majors are comfortable at the intersection of the humanities and the sciences. Poli Sci majors can apply rigor to problems *and* they can articulate solutions with clarity and with an analytical command of data. Poli Sci graduates move into a wide spectrum of positions that demand well-honed writing and presentation skills. Poli Sci graduates can apply reason and rigor to problems that are often consumed by ideology and emotion. Other disciplines may also stress rigor, but Political Science will keep you honest. The ability to define a problem and contribute to its solution while placing it within political,



social, and cultural realities is a rare skill indeed, with applications well beyond the narrow confines of political work. The wide range of intellectual, analytical, qualitative, and quantitative skills, and a broad knowledge of world events that Poli Sci majors develop form the cornerstone of a powerful liberal arts education.

## WHAT CAREERS DO POLITICAL SCIENCE MAJORS PURSUE?

Poli Sci majors learn quickly, work well in teams, and have basic understanding of the policy process and the operations of government. Poli Sci majors understand that for every endeavor, no matter how important, there is a mountain of ordinary grunt work that has to be done. Poli Sci majors can be counted on to do the foot-work, put in the face-time, and endure the slog necessary of everything of consequence.

Poli Sci majors go on to work in all levels of government. Local and state governments have a direct impact on the quality of life of all Americans. Courses on state and urban government, public policy, administrative law, and public administration are especially valuable. Quantitative and statistical skills developed in these courses and applied in the internships many of our students do provide a powerful combination.

Poli Sci majors go on to work in a wide range of International careers, in business, Foreign Service, and non-governmental organizations. Political Science offers a wide variety of courses in comparative politics, international relations and organizations, public policy, political development, and interest group politics. These courses in combination with economics, statistics, computer science, and international trade.

Poli Sci majors pursue careers in campaign management, political polling, national political committees, and consulting. They will have taken multiple courses in the American political system, comparative political parties, elections, public opinion, and voting behavior; as well as committing themselves to developing their writing and data analysis. There are over half a million campaigns in the United States annually, and while entry level jobs have long hours, low pay, and enormous demands, they are places where you can 'cut your political teeth'. Local campaigns lead to statewide or national campaigns, and then perhaps to consulting and polling if that strikes your interest.

Poli Sci majors have also traditionally gone into law. Some lawyers are litigators while others are employed by corporations, government, and other organizations. Political Science track fits nicely for students seeking law degrees as official credentials to 'practice law' and those students who seek a law degree as an additional 'tool' to make positive impacts in their professional areas of interest. Some individuals with legal training work in other areas such as corporate or public management. The department offers a wide variety of political theory, constitutional law, and public policy courses that will help you explore the interaction between law, politics, and society.

## HOW TO GET IN

Students in the College of Letters & Science can declare political science as their major by filling out a form on the political science department's website. After a first meeting with an academic advisor that declaration will be made official. Students in other schools and colleges on campus should make an appointment with an advisor and obtain a signed declaration form to take to their prospective college or school for approval.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

- L&S Breadth
- Humanities, 12 credits: 6 of the 12 credits must be in literature
  - Social Sciences, 12 credits
  - Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

A minimum of **30 credits** is required for the major.

Code	Title	Credits
Select one course in three of the following subfields:		9-12
	International Relations	
	American Government	
	Political Theory	
	Comparative Politics	
Select at least one research methods course from the following:		3-4
POLI SCI 170	Research Methods in Political Science	
POLI SCI 270	Understanding Political Numbers	
POLI SCI 272	Introduction to Public Policy	
POLI SCI 348	Analysis of International Relations	
POLI SCI/JOURN/URB R PL 373	Introduction to Survey Research	
POLI SCI 374	Introduction to Statistical Inference for Political Research	

Additional credits in POLI SCI to reach 30 credit minimum for the Major <sup>1</sup>

<sup>1</sup> No more than 6 credits of Directed Study (POLI SCI 199 Directed Study, POLI SCI 698 Directed Study, POLI SCI 699 Directed Study) and/or Internship (POLI SCI 315 Legislative Internship, POLI SCI 303 Election Campaign Practicum, POLI SCI 478 Washington Internship) may be counted toward the major. Note: After the sixth week of class,

students adding a Directed Study must obtain permission from the department chair.

## SUBFIELDS

### International Relations

Code	Title	Credits
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 346	China in World Politics	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI/ECON/ENVR ST/URB R PL 449	Government and Natural Resources	3-4
POLI SCI 455	African International Relations	3-4
POLI SCI 652	The Politics of Development	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4

### American Government

Code	Title	Credits
POLI SCI 104	Introduction to American Politics and Government	3-4
POLI SCI 184	Introduction to American Politics	3
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI/LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/AFRICAN/AFROAMER/HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI/CHICLA 302	Mexican-American Politics	3-4
POLI SCI 303	Election Campaign Practicum	3
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4

POLI SCI 315	Legislative Internship	3
POLI SCI 402	Wisconsin in Washington Internship Course	4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4
POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 415	The Separation of Powers and Federal Courts	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 507	Health Policy and Health Politics	3-4
POLI SCI 508	American National Security: Policy and Process	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI/ AFROAMER 519	African American Political Theory	3-4
POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course	4
POLI SCI 490	Study Abroad Topics in Political Science: American Government	1-4

**Political Theory**

Code	Title	Credits
POLI SCI 160	Introduction to Political Theory	3-4
POLI SCI 266	The Development of Modern Western Political Thought	3-4
POLI SCI 360	History of American Political Thought	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 460	Topics in Political Philosophy	3-4
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 560	Feminist Political Theory	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4

**Comparative Politics**

Code	Title	Credits
POLI SCI 120	Politics Around the World	4
POLI SCI 182	Politics Around the World (Honors)	3
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
POLI SCI/E A STDS/ HISTORY 255	Introduction to East Asian Civilizations	3-4
POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI 321	Latin-American Politics	3-4
POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 324	Political Power in Contemporary China	3-4
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
POLI SCI/LCA 326	Politics of South Asia	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
POLI SCI 329	African Politics	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 332	German Politics	3-4
POLI SCI 333	International Politics of the Middle East	3-4
POLI SCI 334	Russian Politics	3-4
POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4

POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ RELIG ST 433	Religion and Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies	3
POLI SCI 437	Nationalism and Ethnic Conflict	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 537	Electoral Systems and Representation	3-4
POLI SCI 538	Politics and Policies in the European Union	3-4
POLI SCI 635	Comparative Politics of Sport	3-4
POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

## NOTES

Courses listed in two groups may be counted in either, but not both, groups. Students must have a grade of at least C in at least one course in each group.

Note that courses at the 300–600 level are generally comparable in difficulty. The 300-level courses are generally international relations; 400-level courses are American politics (with the exception of POLI SCI 400 Topics in Political Science and POLI SCI 401 Selected Topics in Political Science Topics courses); 500-level courses are political theory; and 600-level courses below 680 are comparative politics.

POLI SCI 400 and POLI SCI 401 Topics courses can be used to satisfy the distribution requirements as appropriate. Distribution requirements met by a specific topics course will be announced prior to enrollment.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all POLI SCI courses and courses that count toward the major

2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup>

15 credits in POLI SCI, taken on campus

<sup>1</sup> POLI SCI courses numbered 300 and higher that are designated as intermediate or advanced count as upper level in the major.

## DISTINCTION IN THE MAJOR IN POLITICAL SCIENCE

Students who are not enrolled in the honors program may be awarded *Distinction in Political Science*. To receive Distinction students must have:

- 3.700 GPA or higher on all POLI SCI courses and courses that count toward the major
- A minimum university GPA of 3.000
- Completed at least 20 credits of upper-level work in the major, taken in residence (POLI SCI courses numbered 300 and higher).

- Completed at least one of the following: senior thesis (POLI SCI 691 Senior Thesis-POLI SCI 692 Senior Thesis); POLI SCI 601 Proseminar Topics in Political Science; other “advanced level” coursework (see a political science advisor for details); or submit a letter from an instructor describing “substantial additional work” in an advanced political science course.

Students qualifying for *Distinction in Political Science* will be informed as they graduate.

## HONORS IN THE MAJOR

Students may declare Honors in the Political Science Major in consultation with the Political Science major advisors. To be admitted to the Honors Program in Political Science, students must have declared a major in political science, complete or be enrolled in at least one POLI SCI course with an Honors component, and have a 3.300 overall university GPA.

To earn a B.A. or B.S. with Honors in the Major in Political Science students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn 3.500 GPA for all POLI SCI courses, and all courses accepted in the major
- Complete at least 20 credits POLI SCI or other courses accepted in the major for Honors, to include:
  - POLI SCI 601 Political Science Proseminar, POLI SCI 685 Honors Research Internship in Political Science, or other advanced-level coursework with permission of the undergraduate political science advisor and the consent of the instructor
  - A two-semester Senior Honors Thesis in POLI SCI 683 and POLI SCI 684, for a total of 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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1. Develop an understanding of and appreciation for the methods and approaches of diverse subfields in Political Science—American Politics, Comparative Politics, International Relations, and Political Theory—and their relevance to important theoretical and pragmatic questions.
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## ADVISING AND CAREERS

### ADVISING

The Department of Political Science has two academic advisors and one career advisor who are available to meet with you to offer guidance on:

- Course selection
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Information and course descriptions for topics courses (POLI SCI 201, POLI SCI 400, POLI SCI 401) and proseminars (POLI SCI 601,

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See the Requirements section for political science Honors in the Major requirements.

Proactive planning and frequent collaboration with majors advisors is key to successfully completing Honors in the Major. It is recommended that students complete the Proseminar or Honors Research Internship in their junior year.

Students should secure a faculty thesis advisor by the end of their junior year; successful theses normally include planning activities during the junior year. Students should enroll for the Honors Thesis Colloquium, POLI SCI 683 in the Fall and POLI SCI 684 in the Spring. Students must be making sufficient progress in POLI SCI 683 to be admitted into POLI SCI 684; Students not making sufficient progress will not be admitted into POLI SCI 684, and will consequently not complete Honors in Political Science. Rarely, students may enroll in the independent honors thesis, POLI SCI 681 in the Fall and POLI SCI 682 with the permission of the Political Science advisor and the supervising faculty thesis advisor. Likewise, students must be making sufficient progress in POLI SCI 681 to be admitted into POLI SCI 682; Students not making sufficient progress will not be admitted into POLI SCI 682, and will consequently not complete Honors in Political Science.

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Professors Burden, Canon, Cramer, Gehlbach, Hendley, Herrera, Marquez, Martin, Mayer, Pevehouse, Schatzberg, Schweber, Shafer, Straus, Tripp, Weimer, Yackee, Zumbrunnen

Associate Professors Ahlquist, Avramenko, Copelovitch, Ewig, Kapust, Kinsella, Kydd, Owens, Ringe, Shelef

Assistant Professors Bhavnani, Lindsay, Lupu, Powell, Renshon, Simmons, Tahk, Weeks

For appointments, see schedule an advising appointment (<http://www.polisci.wisc.edu/undergrad/scheduling-advising-appointment>) on the Political Science Major page on the department website.

## POLITICAL SCIENCE, B.S.

### WHY STUDY POLITICAL SCIENCE?

Politics have been put under scrutiny in a systematic way since the ancient Greeks. Aristotle even called it the *Queen of the Sciences*. Our own Constitution is the product of both the scholarly study of political theory and a practical framework for political institutions and norms. Our faculty in the Department of Political Science engage politics in a scientific and rigorous way to understand human behavior and world events. Study political science to prepare yourself for a career in campaigns, public policy, business, administration, political advocacy, or public service, but also to become an informed and active citizen.

Political science is a broad and rich discipline. Some of our faculty members conduct research on the psychology of why people behave the way they do politically. Others study institutions such as legislatures, courts, and bureaucracies both as organizations and as political actors themselves. Other faculty members seek to clarify recent constitutional and legal issues. Many study foreign political systems to learn the peculiarities of different political systems comparing them regionally and globally. Our political theorists are intellectual historians and social critics interested in the millennia-long quest for the good society. Still others are policy analysts and dedicated students of American politics. Many are statistical theorists and specialists in surveying political attitudes. Our comparative and international relations experts investigate the causes of war and the conditions for peace among nations.

Political science majors are comfortable at the intersection of the humanities and the sciences. Poli Sci majors can apply rigor to problems *and* they can articulate solutions with clarity and with an analytical command of data. Poli Sci graduates move into a wide spectrum of positions that demand well-honed writing and presentation skills. Poli Sci graduates can apply reason and rigor to problems that are often consumed by ideology and emotion. Other disciplines may also stress rigor, but Political Science will keep you honest. The ability to define a problem and contribute to its solution while placing it within political, social, and cultural realities is a rare skill indeed, with applications well beyond the narrow confines of political work. The wide range of intellectual, analytical, qualitative, and quantitative skills, and a broad knowledge of world events that Poli Sci majors develop form the cornerstone of a powerful liberal arts education.

### WHAT CAREERS DO POLITICAL SCIENCE MAJORS PURSUE?

Poli Sci majors learn quickly, work well in teams, and have basic understanding of the policy process and the operations of government. Poli Sci majors understand that for every endeavor, no matter how important, there is a mountain of ordinary grunt work that has to be done. Poli Sci majors can be counted on to do the foot-work, put in the face-time, and endure the slog necessary of everything of consequence.

Poli Sci majors go on to work in all levels of government. Local and state governments have a direct impact on the quality of life of all Americans.

Courses on state and urban government, public policy, administrative law, and public administration are especially valuable. Quantitative and statistical skills developed in these courses and applied in the internships many of our students do provide a powerful combination.

Poli Sci majors go on to work in a wide range of International careers, in business, Foreign Service, and non-governmental organizations. Political Science offers a wide variety of courses in comparative politics, international relations and organizations, public policy, political development, and interest group politics. These courses in combination with economics, statistics, computer science, and international trade.

Poli Sci majors pursue careers in campaign management, political polling, national political committees, and consulting. They will have taken multiple courses in the American political system, comparative political parties, elections, public opinion, and voting behavior; as well as committing themselves to developing their writing and data analysis. There are over half a million campaigns in the United States annually, and while entry level jobs have long hours, low pay, and enormous demands, they are places where you can 'cut your political teeth'. Local campaigns lead to statewide or national campaigns, and then perhaps to consulting and polling if that strikes your interest.

Poli Sci majors have also traditionally gone into law. Some lawyers are litigators while others are employed by corporations, government, and other organizations. Political Science track fits nicely for students seeking law degrees as official credentials to 'practice law' and those students who seek a law degree as an additional 'tool' to make positive impacts in their professional areas of interest. Some individuals with legal training work in other areas such as corporate or public management. The department offers a wide variety of political theory, constitutional law, and public policy courses that will help you explore the interaction between law, politics, and society.

### HOW TO GET IN

Students in the College of Letters & Science can declare political science as their major by filling out a form on the political science department's website. After a first meeting with an academic advisor that declaration will be made official. Students in other schools and colleges on campus should make an appointment with an advisor and obtain a signed declaration form to take to their prospective college or school for approval.

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

**BACHELOR OF SCIENCE DEGREE REQUIREMENTS****Requirements Detail**

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

**NON–L&S STUDENTS PURSUING AN L&S MAJOR**

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

**REQUIREMENTS FOR THE MAJOR**

A minimum of **30 credits** is required for the major.

Code	Title	Credits
Select one course in three of the following subfields:		9-12
	International Relations	
	American Government	
	Political Theory	
	Comparative Politics	
Select at least one research methods course from the following:		3-4
POLI SCI 170	Research Methods in Political Science	
POLI SCI 270	Understanding Political Numbers	
POLI SCI 272	Introduction to Public Policy	
POLI SCI 348	Analysis of International Relations	
POLI SCI/JOURN/URB R PL 373	Introduction to Survey Research	
POLI SCI 374	Introduction to Statistical Inference for Political Research	

Additional credits in POLI SCI to reach 30 credit minimum for the Major <sup>1</sup>

<sup>1</sup> No more than 6 credits of Directed Study (POLI SCI 199 Directed Study, POLI SCI 698 Directed Study, POLI SCI 699 Directed Study) and/or Internship (POLI SCI 315 Legislative Internship, POLI SCI 303 Election Campaign Practicum, POLI SCI 478 Washington Internship) may be counted toward the major. Note: After the sixth week of class, students adding a Directed Study must obtain permission from the department chair.

**SUBFIELDS****International Relations**

Code	Title	Credits
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 346	China in World Politics	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4

POLI SCI 359	American Foreign Policy	3-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 455	African International Relations	3-4
POLI SCI 652	The Politics of Development	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4

**American Government**

Code	Title	Credits
POLI SCI 104	Introduction to American Politics and Government	3-4
POLI SCI 184	Introduction to American Politics	3
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 303	Election Campaign Practicum	3
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 315	Legislative Internship	3
POLI SCI 402	Wisconsin in Washington Internship Course	4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4
POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 415	The Separation of Powers and Federal Courts	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 507	Health Policy and Health Politics	3-4

POLI SCI 508	American National Security: Policy and Process	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI/ AFROAMER 519	African American Political Theory	3-4
POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course	4
POLI SCI 490	Study Abroad Topics in Political Science: American Government	1-4

**Political Theory**

Code	Title	Credits
POLI SCI 160	Introduction to Political Theory	3-4
POLI SCI 266	The Development of Modern Western Political Thought	3-4
POLI SCI 360	History of American Political Thought	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 460	Topics in Political Philosophy	3-4
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 560	Feminist Political Theory	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4

**Comparative Politics**

Code	Title	Credits
POLI SCI 120	Politics Around the World	4
POLI SCI 182	Politics Around the World (Honors)	3
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
POLI SCI/E A STDS/ HISTORY 255	Introduction to East Asian Civilizations	3-4



POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI 321	Latin-American Politics	3-4
POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 324	Political Power in Contemporary China	3-4
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
POLI SCI/LCA 326	Politics of South Asia	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
POLI SCI 329	African Politics	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 332	German Politics	3-4
POLI SCI 333	International Politics of the Middle East	3-4
POLI SCI 334	Russian Politics	3-4
POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ RELIG ST 433	Religion and Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies	3
POLI SCI 437	Nationalism and Ethnic Conflict	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 537	Electoral Systems and Representation	3-4
POLI SCI 538	Politics and Policies in the European Union	3-4
POLI SCI 635	Comparative Politics of Sport	3-4

POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

## NOTES

Courses listed in two groups may be counted in either, but not both, groups. Students must have a grade of at least C in at least one course in each group.

Note that courses at the 300–600 level are generally comparable in difficulty. The 300-level courses are generally international relations; 400-level courses are American politics (with the exception of POLI SCI 400 Topics in Political Science and POLI SCI 401 Selected Topics in Political Science Topics courses); 500-level courses are political theory; and 600-level courses below 680 are comparative politics.

POLI SCI 400 and POLI SCI 401 Topics courses can be used to satisfy the distribution requirements as appropriate. Distribution requirements met by a specific topics course will be announced prior to enrollment.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all POLI SCI courses and courses that count toward the major

2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup>

15 credits in POLI SCI, taken on campus

<sup>1</sup> POLI SCI courses numbered 300 and higher that are designated as intermediate or advanced count as upper level in the major.

## DISTINCTION IN THE MAJOR IN POLITICAL SCIENCE

Students who are not enrolled in the honors program may be awarded *Distinction in Political Science*. To receive Distinction students must have:

- 3.700 GPA or higher on all POLI SCI courses and courses that count toward the major
- A minimum university GPA of 3.000
- Completed at least 20 credits of upper-level work in the major, taken in residence (POLI SCI courses numbered 300 and higher).
- Completed at least one of the following: senior thesis (POLI SCI 691 Senior Thesis-POLI SCI 692 Senior Thesis); POLI SCI 601 Proseminar Topics in Political Science; other “advanced level” coursework (see a political science advisor for details); or submit a letter from an instructor describing “substantial additional work” in an advanced political science course.

Students qualifying for *Distinction in Political Science* will be informed as they graduate.

## HONORS IN THE MAJOR

Students may declare Honors in the Political Science Major in consultation with the Political Science major advisors. To be admitted to the Honors Program in Political Science, students must have declared a major in political science, complete or be enrolled in at least one POLI SCI course with an Honors component, and have a 3.300 overall university GPA.

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1. Develop an understanding of and appreciation for the methods and approaches of diverse subfields in Political Science—#American Politics, Comparative Politics, International Relations, and Political Theory—#and their relevance to important theoretical and pragmatic questions.
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### ADVISING

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Honors in the Major in Political Science is intended for students who are eager to experience the excitement of original research and who

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Proactive planning and frequent collaboration with majors advisors is key to successfully completing Honors in the Major. It is recommended that students complete the Proseminar or Honors Research Internship in their junior year.

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Associate Professors Ahlquist, Avramenko, Copelovitch, Ewig, Kapust, Kinsella, Kydd, Owens, Ringe, Shelef

Assistant Professors Bhavnani, Lindsay, Lupu, Powell, Renshon, Simmons, Tahk, Weeks

For appointments, see schedule an advising appointment (<http://www.polisci.wisc.edu/undergrad/scheduling-advising-appointment>) on the Political Science Major page on the department website.

## PSYCHOLOGY

The psychology major is the largest major in the College of Letters & Science, focusing on five areas in the field of psychological science: biological, clinical, cognitive and cognitive neuroscience, developmental, and social and personality.

The mission of the undergraduate program in psychology is to provide students with opportunities to:

- learn about the multiple content areas of scientific psychology
- develop the ability to think critically and quantitatively
- enhance written and oral communication skills
- prepare for the most rigorous graduate and professional programs
- apply the science of psychology to the well-being of citizens of Wisconsin and the global community

Some students will go to graduate school and become the next generation of psychological scientists and educators who will create and disseminate new knowledge. Others will choose careers in other areas, including but not limited to business, medicine, law, education, and counseling. Through its strong interdisciplinary connections with the natural sciences, social sciences, humanities, and medical sciences, scientific psychology is positioned well to influence critical issues for society. Because all courses in psychology emphasize critical thinking and the analysis of research, the undergraduate program prepares students to take on the challenges of and fully participate in an increasingly complex, multicultural world.

## DEGREES/MAJORS/CERTIFICATES

- Psychology, B.A. (p. 1027)
- Psychology, B.S. (p. 1031)

## PEOPLE

Professors Goldsmith (chair), Abramson, Alibali, Auger, Berridge, Brauer, Coe, Curtin, Davidson, Devine, Gernsbacher, Goldsmith, Gooding, Harackiewicz, Hyde, Jenison, MacDonald, Marler, Niedenthal, Pollak, Postle, Rogers, Rosengren, Ryff, Saffran, Seidenberg, Snowdon

Associate Professors Bennett, Lupyan, Miyamoto, Rokers, Shutts

Assistant Professors Austerweil, Green, Li, Saalman, Schloss, Simmering

## PSYCHOLOGY, B.A.

The psychology major is the largest major in the College of Letters & Science, focusing on five areas in the field of psychological science: biological, clinical, cognitive and cognitive neuroscience, developmental, and social and personality.

The mission of the undergraduate program in psychology is to provide students with opportunities to:

- learn about the multiple content areas of scientific psychology
- develop the ability to think critically and quantitatively
- enhance written and oral communication skills
- prepare for the most rigorous graduate and professional programs
- apply the science of psychology to the well-being of citizens of Wisconsin and the global community

Some students will go to graduate school and become the next generation of psychological scientists and educators who will create and disseminate new knowledge. Others will choose careers in other areas, including but not limited to business, medicine, law, education, and counseling. Through its strong interdisciplinary connections with the natural sciences, social sciences, humanities, and medical sciences, scientific psychology is positioned well to influence critical issues

for society. Because all courses in psychology emphasize critical thinking and the analysis of research, the undergraduate program prepares students to take on the challenges of and fully participate in an increasingly complex, multicultural world.

## HOW TO GET IN

To declare the psychology major, a student must successfully complete PSYCH 201 Introductory Psychology (or equivalent) with a grade of C or better and schedule an appointment (<http://psych.wisc.edu/undergraduate-schedule-an-appointment.htm>) with an advisor.

<sup>1</sup> Equivalents include PSYCH 202, PSYCH 281, or a score of 4 or higher on the IB Psychology exam.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.**

### REQUIREMENTS FOR THE MAJOR

The major requires 33 credits in PSYCH and completion of these four learning areas:

#### FOUNDATION

Foundation courses provide a grounding in basic psychological facts and an understanding of the methodologies used to produce those facts. **Four courses are required** with grades of C or better in each category:

Code	Title	Credits
<b>Introductory Psychology—one course:</b>		3-4
PSYCH 201	Introduction to Psychology	
PSYCH 202	Introduction to Psychology	
PSYCH 281	Honors Course-Introduction to Psychology (with a grade of B or better to earn honors)	

**Statistics—one course:** 3-4

PSYCH 210	Basic Statistics for Psychology <sup>1</sup>
PSYCH 280	Honors Basic Statistics for Psychology (with a grade of B or better to earn honors)
SOC/ C&E SOC 360	Statistics for Sociologists I
STAT 371	Introductory Applied Statistics for the Life Sciences

**Research Methods—one course:** 4

PSYCH 225	Research Methods
PSYCH 285	Honors Course - Research Methods (with grade of B or better to earn honors)

**Introductory Biology—one course:**<sup>1</sup> 3-5

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology <sup>3</sup>
BIOCORE 381 & BIOCORE 384	Evolution, Ecology, and Genetics and Cellular Biology Laboratory

Total Credits 13-17

<sup>1</sup> A score of 4 or better on the IB Biology exam will satisfy the Introductory Biology requirement.

**BREADTH**

Breadth courses familiarize students with the breadth of psychology.

**Three (3) courses** from at least **three** different topic groups are required:**Biological**

Code	Title	Credits
PSYCH 449	Animal Behavior	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH/ ZOOLOGY 523	Neurobiology	3

**Clinical**

Code	Title	Credits
PSYCH 311	Issues in Psychology (Topic: Psychology Law and Social Policies)	1-4
PSYCH 405	Abnormal Psychology	3-4

**Cognitive and Perceptual Sciences**

Code	Title	Credits
PSYCH 406	Psychology of Perception	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3

**Developmental**

Code	Title	Credits
PSYCH/SOC 350	Human Sexuality	4

PSYCH 460	Developmental Psychology	3-4
PSYCH 464	Adult Development and Aging	3

**Social and Personality**

Code	Title	Credits
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 507	Psychology of Personality	3
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 528	Introduction to Cultural Psychology	3

**DEPTH**

Depth courses allow students to engage in depth with material in specific content areas in psychology. Depth courses include both a lecture component and a required discussion/lab section for all students, and they help students develop a deeper understanding of particular areas of psychology. Each depth course has a prerequisite of one relevant breadth course; please check each course for possible prerequisites. **Two courses** are required:

Code	Title	Credits
PSYCH 501	Depth Topic (multiple separate topics offered each semester)	4
or PSYCH 581	Honors Depth Topic	
PSYCH 502	Cognitive Development	4
or PSYCH 582	Honors Cognitive Development	
PSYCH 503	Social Development	4
or PSYCH 583	Honors Social Development	
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
or PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	
PSYCH 532	Psychological Effects of the Internet	4

**CAPSTONE**

Capstone courses allow students to engage in depth with particular content areas in psychology in a seminar setting. **One course** is required:

Code	Title	Credits
PSYCH 601	Current Topics in Psychology (many separate topics each semester)	3
PSYCH 602	Intermediate Statistics for Psychology	3
PSYCH 607	Introduction to Clinical Psychology	3
PSYCH 610	Statistical Analysis of Psychological Experiments	3

**RESIDENCE AND QUALITY OF WORK**

2.000 GPA in all PSYCH and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>

15 credits in PSYCH, taken on the UW–Madison campus

<sup>2</sup> PSYCH 300–699 are upper level in the major.

## HONORS IN THE MAJOR

Students may apply for Honors in the Psychology Major in consultation with the psychology undergraduate advisor(s). Decisions on admission to the Honors in the Major in Psychology program are made once per year, in February, by a committee of psychology faculty. Overall, criteria emphasize demonstrated ability and commitment to becoming a first-rate scholar. Performance in coursework at the university, particularly Honors courses in psychology and related fields, is among the criteria for admission. Consistent with the philosophy that there is more to honors scholarship than distinguished grades, commitment to excellence in the science of psychology, evidence of broad scholarship (including mathematics and sciences), and evidence of involvement within the university and the broader community enhance students' credentials.

## HONORS IN THE PSYCHOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Psychology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all PSYCH courses, and all courses in the major
- Complete the following courses, taken for Honors, with individual grades of B or better:
  - PSYCH 386 Topics in Psychology for Honors Students, taken for two semesters for a total of 2 credits
  - PSYCH 686 Honors Seminar in Psychology, taken for two semesters for a total of 2 credits
  - Three Psychology Breadth and/or Depth courses
  - A two-semester Senior Honors Thesis in PSYCH 681 Senior Honors Thesis and PSYCH 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

**Quality of Work**

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

## LEARNING OUTCOMES

1. Students will gain an appreciation for the contributions that psychology is making to our understanding of human and animal behavior.
2. Students will learn to analyze and construct arguments, define and solve problems, and understand and apply scientific reasoning.
3. Students will learn to communicate their ideas, both written and spoken, in a clear, organized, and compelling way.
4. Students will gain a specific understanding of how to use data and research methodology in their critical thinking.
5. Students will acquire an appreciation of and respect for individual differences and diversity of experiences and background.
6. Students will acquire the statistical and research skills used in the behavioral sciences.
7. Students will have the opportunity to evaluate the diverse professional opportunities in psychology.

## ADVISING AND CAREERS

Advising appointments can be made through the WiscCal Scheduling Assistant. **All major declarations require an appointment.** You must have a NetID to make an appointment.

Melanie Jones (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/DKwbhrvb.html>): Students whose last name begins with A–H; Room 426 Brogden Psychology Building

Stephanie Osborn (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/PmTxxMuT.html>): Students whose last name begins with I–L; Room 428 Brogden Psychology Building

Valerie Johnson (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/ZRvJFZZg.html>): Students whose last name begins with M–Z; Room 430 Brogden Psychology Building

Please see this link for instructions on how to use Scheduling Assistant (<http://kb.wisc.edu/page.php?id=11776>). We have three advisors in the psychology department; all currently declared students should try to schedule an appointment with their assigned advisor.

**Appointments may be made up to two weeks in advance, with at least 24 hours advance notice.** Students are allowed only one appointment in a two week period. Please note that students are limited to one 25-minute appointment within a two-week interval. Students who are more than 10 minutes late for an appointment will be required to reschedule.

**If you need to cancel an appointment,** you must do so through Scheduling Assistant. Students who have migrated to Office365 and are using the Outlook Web App should be sure to send us a response if they decline their appointment.

Please also note that there is a high demand for advising in the psychology department. It is common for appointments to be filled

quickly. Requests for appointments cannot be made via email. If you have more immediate advising needs, please refer to the weekly drop-in hours (<http://psych.wisc.edu/undergraduate-drop-in-hours.htm>). All students, regardless of their assigned advisor, may attend drop-in advising.

### Are you a prospective student?

We are happy to meet with prospective UW–Madison students to discuss the psychology major during nonpeak advising. Peak advising occurs during the first three weeks of each semester and during registration time (during the months of March/April and October/November). We require a minimum of two weeks advance notice to schedule an appointment. You may contact us via email: [advisor@psych.wisc.edu](mailto:advisor@psych.wisc.edu).

## PEOPLE

Professors Goldsmith (chair), Abramson, Alibali, Auger, Berridge, Brauer, Coe, Curtin, Davidson, Devine, Gernsbacher, Goldsmith, Gooding, Harackiewicz, Hyde, Jenison, MacDonald, Marler, Niedenthal, Pollak, Postle, Rogers, Rosengren, Ryff, Saffran, Seidenberg, Snowdon

Associate Professors Bennett, Lupyan, Miyamoto, Rokers, Shutts

Assistant Professors Austerweil, Green, Li, Saalman, Schloss, Simmering

## PSYCHOLOGY, B.S.

The psychology major is the largest major in the College of Letters & Science, focusing on five areas in the field of psychological science: biological, clinical, cognitive and cognitive neuroscience, developmental, and social and personality.

The mission of the undergraduate program in psychology is to provide students with opportunities to:

- learn about the multiple content areas of scientific psychology
- develop the ability to think critically and quantitatively
- enhance written and oral communication skills
- prepare for the most rigorous graduate and professional programs
- apply the science of psychology to the well-being of citizens of Wisconsin and the global community

Some students will go to graduate school and become the next generation of psychological scientists and educators who will create and disseminate new knowledge. Others will choose careers in other areas, including but not limited to business, medicine, law, education, and counseling. Through its strong interdisciplinary connections with the natural sciences, social sciences, humanities, and medical sciences, scientific psychology is positioned well to influence critical issues for society. Because all courses in psychology emphasize critical thinking and the analysis of research, the undergraduate program prepares students to take on the challenges of and fully participate in an increasingly complex, multicultural world.

## HOW TO GET IN

To declare the psychology major, a student must successfully complete PSYCH 201 Introductory Psychology (or equivalent) with a grade of C or better and schedule an appointment ([http://](http://psych.wisc.edu/undergraduate-schedule-an-appointment.htm)

[psych.wisc.edu/undergraduate-schedule-an-appointment.htm](http://psych.wisc.edu/undergraduate-schedule-an-appointment.htm)) with an advisor.

- <sup>1</sup> Equivalents include PSYCH 202, PSYCH 281, or a score of 4 or higher on the IB Psychology exam.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

The major requires 33 credits in PSYCH and completion of these four learning areas:

### FOUNDATION

Foundation courses provide a grounding in basic psychological facts and an understanding of the methodologies used to produce those facts. **Four courses are required** with grades of C or better in each category.

Code	Title	Credits
<b>Introductory Psychology—one course:</b>		3-4
PSYCH 201	Introduction to Psychology	
PSYCH 202	Introduction to Psychology	
PSYCH 281	Honors Course-Introduction to Psychology (with a grade of B or better to earn honors)	
<b>Statistics—one course:</b>		3-4
PSYCH 210	Basic Statistics for Psychology <sup>1</sup>	
PSYCH 280	Honors Basic Statistics for Psychology (with a grade of B or better to earn honors)	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Research Methods—one course:</b>		4
PSYCH 225	Research Methods	
PSYCH 285	Honors Course - Research Methods (with grade of B or better to earn honors)	

<b>Introductory Biology—one course:</b> <sup>1</sup>		3-5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology <sup>3</sup>	
BIOCORE 381 & BIOCORE 384	Evolution, Ecology, and Genetics and Cellular Biology Laboratory	
Total Credits		13-17

<sup>1</sup> A score of 4 or better on the IB Biology exam will satisfy the Introductory Biology requirement.

### BREADTH

Breadth courses familiarize students with the breadth of psychology. **Three (3) courses** from at least **three** different topic groups are required:

#### Biological

Code	Title	Credits
PSYCH 449	Animal Behavior	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH/ ZOOLOGY 523	Neurobiology	3

#### Clinical

Code	Title	Credits
PSYCH 311	Issues in Psychology (Topic: Psychology Law and Social Policies)	1-4
PSYCH 405	Abnormal Psychology	3-4

#### Cognitive and Perceptual Sciences

Code	Title	Credits
PSYCH 406	Psychology of Perception	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3

#### Developmental

Code	Title	Credits
PSYCH/SOC 350	Human Sexuality	4
PSYCH 460	Developmental Psychology	3-4
PSYCH 464	Adult Development and Aging	3

#### Social and Personality

Code	Title	Credits
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 507	Psychology of Personality	3
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 528	Introduction to Cultural Psychology	3

### DEPTH

Depth courses allow students to engage in depth with material in specific content areas in psychology. Depth courses include both a lecture



component and a required discussion/lab section for all students, and they help students develop a deeper understanding of particular areas of psychology. Each depth course has a prerequisite of one relevant breadth course; please check each course for possible prerequisites. **Two courses** are required:

Code	Title	Credits
PSYCH 501	Depth Topic (multiple separate topics offered each semester)	4
or PSYCH 581	Honors Depth Topic	
PSYCH 502	Cognitive Development	4
or PSYCH 582	Honors Cognitive Development	
PSYCH 503	Social Development	4
or PSYCH 583	Honors Social Development	
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
or PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	
PSYCH 532	Psychological Effects of the Internet	4

## CAPSTONE

Capstone courses allow students to engage in depth with particular content areas in psychology in a seminar setting. **One course** is required:

Code	Title	Credits
PSYCH 601	Current Topics in Psychology (many separate topics each semester)	3
PSYCH 602	Intermediate Statistics for Psychology	3
PSYCH 607	Introduction to Clinical Psychology	3
PSYCH 610	Statistical Analysis of Psychological Experiments	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all PSYCH and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>

15 credits in PSYCH, taken on the UW–Madison campus

<sup>2</sup> PSYCH 300–699 are upper level in the major.

## HONORS IN THE MAJOR

Students may apply for Honors in the Psychology Major in consultation with the psychology undergraduate advisor(s). Decisions on admission to the Honors in the Major in Psychology program are made once per year, in February, by a committee of psychology faculty. Overall, criteria emphasize demonstrated ability and commitment to becoming a first-rate scholar. Performance in coursework at the university, particularly Honors courses in psychology and related fields, is among the criteria for admission. Consistent with the philosophy that there is more to honors

scholarship than distinguished grades, commitment to excellence in the science of psychology, evidence of broad scholarship (including mathematics and sciences), and evidence of involvement within the university and the broader community enhance students' credentials.

## HONORS IN THE PSYCHOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Psychology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all PSYCH courses, and all courses in the major
- Complete the following courses, taken for Honors, with individual grades of B or better:
  - PSYCH 386 Topics in Psychology for Honors Students, taken for two semesters for a total of 2 credits
  - PSYCH 686 Honors Seminar in Psychology, taken for two semesters for a total of 2 credits
  - Three Psychology Breadth and/or Depth courses
  - A two-semester Senior Honors Thesis in PSYCH 681 Senior Honors Thesis and PSYCH 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Students will gain an appreciation for the contributions that psychology is making to our understanding of human and animal behavior.
2. Students will learn to analyze and construct arguments, define and solve problems, and understand and apply scientific reasoning.
3. Students will learn to communicate their ideas, both written and spoken, in a clear, organized, and compelling way.
4. Students will gain a specific understanding of how to use data and research methodology in their critical thinking.
5. Students will acquire an appreciation of and respect for individual differences and diversity of experiences and background.

6. Students will acquire the statistical and research skills used in the behavioral sciences.
7. Students will have the opportunity to evaluate the diverse professional opportunities in psychology.

## ADVISING AND CAREERS

Advising appointments can be made through the WiscCal Scheduling Assistant. **All major declarations require an appointment.** You must have a NetID to make an appointment.

Melanie Jones (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/DKwbhrvb.html>): Students whose last name begins with A–H; Room 426 Brogden Psychology Building

Stephanie Osborn (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/PmTkxMuT.html>): Students whose last name begins with I–L; Room 428 Brogden Psychology Building

Valerie Johnson (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/ZRvJFZZg.html>): Students whose last name begins with M–Z; Room 430 Brogden Psychology Building

Please see this link for instructions on how to use Scheduling Assistant (<http://kb.wisc.edu/page.php?id=11776>). We have three advisors in the psychology department; all currently declared students should try to schedule an appointment with their assigned advisor.

**Appointments may be made up to two weeks in advance, with at least 24 hours advance notice.** Students are allowed only one appointment in a two week period. Please note that students are limited to one 25-minute appointment within a two-week interval. Students who are more than 10 minutes late for an appointment will be required to reschedule.

**If you need to cancel an appointment,** you must do so through Scheduling Assistant. Students who have migrated to Office365 and are using the Outlook Web App should be sure to send us a response if they decline their appointment.

Please also note that there is a high demand for advising in the psychology department. It is common for appointments to be filled quickly. Requests for appointments cannot be made via email. If you have more immediate advising needs, please refer to the weekly drop-in hours (<http://psych.wisc.edu/undergraduate-drop-in-hours.htm>). All students, regardless of their assigned advisor, may attend drop-in advising.

### Are you a prospective student?

We are happy to meet with prospective UW–Madison students to discuss the psychology major during nonpeak advising. Peak advising occurs during the first three weeks of each semester and during registration time (during the months of March/April and October/November). We require a minimum of two weeks advance notice to schedule an appointment. You may contact us via email: [advisor@psych.wisc.edu](mailto:advisor@psych.wisc.edu).

## PEOPLE

Professors Goldsmith (chair), Abramson, Alibali, Auger, Berridge, Brauer, Coe, Curtin, Davidson, Devine, Gernsbacher, Goldsmith, Gooding, Harackiewicz, Hyde, Jenison, MacDonald, Marler, Niedenthal, Pollak, Postle, Rogers, Rosengren, Ryff, Saffran, Seidenberg, Snowdon

Associate Professors Bennett, Lupyan, Miyamoto, Rokers, Shutts

Assistant Professors Austerweil, Green, Li, Saalman, Schloss, Simmering

## RELIGIOUS STUDIES

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important preparation for thinking, communicating and functioning professionally and personally in a complex, multi-dimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st](http://guide.wisc.edu/courses/relig_st)) in the Guide.

## DEGREES/MAJORS/CERTIFICATES

- Religious Studies, B.A. (p. 1035)
- Religious Studies, B.S. (p. 1038)
- Religious Studies, Certificate (p. 1042)

## PEOPLE

**Professors:** Bell, Bowie, Brenner, Bühnemann, Chamberlain, Cohen, Dale, DuBois, Dunne, Gade, Hansen, Hardin, Hildner, Howard, Hsia, Koshar, Langer, Livorni, Loudon, Nadler, Ohnuki-Tierney, Phillips, Schamiloglu, Schenck, Schweber, Stanford Friedman, Thompson, Wandel, Wink, Wolf, Zaeske

**Associate Professors:** Beneker, Hutton, Livanos, Meulenbeld, Rosenblum, Shelef, Shoemaker, Thal, Todorovic

**Assistant Professors:** Al-Mohammad, Chamedes, Hollander, Mandell, Pruitt

**Visiting Assistant Professors:** Cerulli, Ridgely

**Distinguished Faculty Associate:** Brown

**Faculty Associates:** Mellor, Norman

**Associate Faculty Associates:** Rosenhagen, Whelan

**Lecturer:** Carlsson

**Faculty Diversity Liaison:** Program Director Rosenblum

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

## RELIGIOUS STUDIES, B.A.

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important preparation for thinking, communicating and functioning professionally and personally in a complex, multi-dimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st](http://guide.wisc.edu/courses/relig_st)) in the *Guide*.

## HOW TO GET IN

Students who wish to declare their intention to major or earn a certificate in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
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Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW–Madison
	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

To earn a major in religious studies, students must complete at least 30 credits as follows:

Code	Title	Credits
Gateway Courses, select one of the following:		3
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
Capstone Sequence:		
RELIG ST 600 & RELIG ST 601	Religion in Critical Perspective and Senior Capstone Research and Colloquium	7
Additional Courses:		20
Select additional credits in RELIG ST to bring credits in the major to 30. At least 9 credits must be at the 300-level or higher. See Additional Courses Course List below.		
Total Credits		30

## ADDITIONAL COURSES Course List

Code	Title	Credits
RELIG ST/E ASIAN/ HISTORY/LCA 308	Introduction to Buddhism	3-4
RELIG ST/HISTORY/ MEDIEVAL 309	The Crusades: Christianity and Islam	3-4
RELIG ST 311	Sects and Cults	3
RELIG ST/HISTORY/ MEDIEVAL 312	The Medieval Church	3-4

RELIG ST/HISTORY/ MEDIEVAL 318	Medieval Social and Intellectual History, 1200-1450	3-4
RELIG ST/ SLAVIC 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
RELIG ST 327	Christianity and the Almighty Dollar	3
RELIG ST/JEWISH/ LITTRANS 328	Classical Rabbinic Literature in Translation	3-4
RELIG ST/HIST SCI/ MED HIST 331	Science, Medicine and Religion	3-4
RELIG ST/CLASSICS/ HEBR-BIB/JEWISH/ LITTRANS 332	Prophets of the Bible	4
RELIG ST 333	Early Christian Literature: Matthew-Revelation	3
RELIG ST/ HISTORY 334	The Reformation	3-4
RELIG ST/CLASSICS/ JEWISH 335	King David in History and Tradition	3
RELIG ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 342	In Translation: Mythology of Scandinavia	3-4
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4
RELIG ST/CLASSICS/ JEWISH 346	Jewish Literature of the Greco-Roman Period	3
RELIG ST/ E ASIAN 350	Introduction to Taoism	3-4
RELIG ST/ FOLKLORE 352	Shamanism	3
RELIG ST/LCA 355	Hinduism	4
RELIG ST/ENVIR ST/ HIST SCI/LCA 356	Islam, Science & Technology, and the Environment	3-4
RELIG ST/LCA 357	Literatures of Muslim Societies	3
RELIG ST/ FOLKLORE 359	Myth	3
RELIG ST/ENGL/ HISTORY 360	The Anglo-Saxons	3
RELIG ST 361	Early Christian Literature: Pauline Christianity	3
RELIG ST/ E ASIAN 363	Introduction to Confucianism	3
RELIG ST/LCA 367	Jainism: Religion of Non-Violence	3
RELIG ST/ HISTORY/JEWISH/ MEDIEVAL 368	The Bible in the Middle Ages	3
RELIG ST/AFRICAN/ LCA 370	Islam: Religion and Culture	3-4
RELIG ST/ANTHRO/ JEWISH 372	Jews of Central and Eastern Europe	3-4
RELIG ST/ ART HIST 373	Great Cities of Islam	3
RELIG ST/ COM ARTS 374	The Rhetoric of Religion	3
RELIG ST/ JEWISH 377	Jewish Cultural History (in English)	4

RELIG ST/ HISTORY 379	Islam in Iran	3	RELIG ST/LCA 624	Meditation in Indian Buddhism and Hinduism	3
RELIG ST 400	Topics in Religious Studies - Humanities	3-4	RELIG ST/LCA 626	Gods and Goddesses of South Asia	3
RELIG ST 401	Topics in Religious Studies - Social Studies	3-4	RELIG ST/LCA/ LEGAL ST 628	Hindu Law	3
RELIG ST/LCA 402	Thought of Gandhi	3	RELIG ST/LCA/ SOC 634	Social Structure of India	3
RELIG ST 403	Topics in Religious Studies-US Ethnic Studies	3-5	RELIG ST/LCA 650	Proseminar in Buddhist Thought	2-3
RELIG ST/LCA 421	A Survey of Tibetan Buddhism	3	RELIG ST/ ANTHRO 666	The Anthropology of Shamanism and Occult Experience	3
RELIG ST/ POLI SCI 433	Religion and Politics	3-4	<b>RESIDENCE AND QUALITY OF WORK</b>		
RELIG ST/ENGL 434	Milton	3	2.000 GPA in all RELIG ST and major courses		
RELIG ST/JEWISH/ PHILOS 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3	2.000 GPA on 15 upper-level credits for the major, taken in residence <sup>1</sup>		
RELIG ST/ HISTORY 437	Western Christianity from Augustine to Darwin	4	15 credits in RELIG ST or the major, taken on campus		
RELIG ST/HISTORY/ LCA 438	Buddhism and Society in Southeast Asian History	3-4	<sup>1</sup> Courses counting as upper level in the major include: RELIG ST/HISTORY 208, RELIG ST/HISTORY 209, RELIG ST/CLASSICS/JEWISH/LITTRANS 227, RELIG ST/ILS 234, RELIG ST/E ASIAN/LCA 235, RELIG ST/CLASSICS/JEWISH/LITTRANS 237, RELIG ST/LITTRANS/MEDIEVAL 253, RELIG ST/LITTRANS 257, RELIG ST/PHILOS 261 and all courses numbered RELIG ST 300–699, except RELIG ST/CLASSICS/HEBR-BIB/JEWISH/LITTRANS 332.		
RELIG ST/ HISTORY 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4	<b>HONORS IN THE MAJOR</b>		
RELIG ST/ MEDIEVAL 440	Francis of Assisi: Literature and the Arts	3	Students may declare Honors in the Religious Studies Major in consultation with the Religious Studies undergraduate advisor.		
RELIG ST/LCA 444	Introduction to Sufism (Islamic Mysticism)	3	<b>HONORS IN THE RELIGIOUS STUDIES MAJOR REQUIREMENTS</b>		
RELIG ST/ JEWISH 448	Classical Rabbinic Texts	3	To earn a B.A. or B.S. with Honors in the Major in Religious Studies students must satisfy both the requirements for the major (above) and the following additional requirements:		
RELIG ST/E ASIAN/ LCA 466	Buddhist Thought	3	<ul style="list-style-type: none"> <li>• Earn a 3.300 overall university GPA</li> <li>• Earn a 3.500 GPA for all RELIG ST courses and courses that count for the major</li> <li>• Complete 19 credits, taken for Honors, with individual grades of B or better, to include: <ul style="list-style-type: none"> <li>• RELIG ST 600 Religion in Critical Perspective</li> <li>• RELIG ST 601 Senior Capstone Research and Colloquium</li> </ul> </li> <li>• 6 credits of intermediate- or advanced-level RELIG ST courses or courses that count for the major</li> <li>• A two-semester Senior Honors Thesis in RELIG ST 681 Senior Honors Thesis and RELIG ST 682 Senior Honors Thesis, for a total of 6 credits.</li> </ul>		
RELIG ST/ HISTORY 470	Religious Thought in Modern Europe	3-4	<b>UNIVERSITY DEGREE REQUIREMENTS</b>		
RELIG ST 472	Christian Literature: The Gospels	3	<b>Requirements Detail</b>		
RELIG ST/ ART HIST 478	Art and Religious Practice in Medieval Japan	3	Total Degree To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.		
RELIG ST 500	Advanced Topics in Religious Studies	2-4			
RELIG ST/ PHILOS 501	Philosophy of Religion	3-4			
RELIG ST/ PHILOS 502	Special Topics in Philosophy of Religion	3			
RELIG ST/CURRIC/ ED POL 516	Religion and Public Education	3			
RELIG ST/CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean	3			
RELIG ST/HISTORY/ JEWISH 529	Intellectual and Religious History of European Jewry, 1648-1939	4			
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3			
RELIG ST/LCA/ SOC 614	Social Structures of Muslim Societies	3			
RELIG ST/ POLI SCI 618	Political Islam	3-4			
RELIG ST/LCA 620	Proseminar. Studies in Religions of Asia	3			
RELIG ST/LCA 623	Yoga: Methods and Goals	3			

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

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

Letters & Science Career Services (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)

## PEOPLE

**Professors:** Bell, Bowie, Brenner, Bühnemann, Chamberlain, Cohen, Dale, DuBois, Dunne, Gade, Hansen, Hardin, Hildner, Howard, Hsia, Koshar, Langer, Livorni, Loudon, Nadler, Ohnuki-Tierney, Phillips, Schamiloglu, Schenck, Schweber, Stanford Friedman, Thompson, Wandel, Wink, Wolf, Zaeske

**Associate Professors:** Beneker, Hutton, Livanos, Meulenbeld, Rosenblum, Shelef, Shoemaker, Thal, Todorovic

**Assistant Professors:** Al-Mohammad, Chamedes, Hollander, Mandell, Pruitt

**Visiting Assistant Professors:** Cerulli, Ridgely

**Distinguished Faculty Associate:** Brown

**Faculty Associates:** Mellor, Norman

**Associate Faculty Associates:** Rosenhagen, Whelan

**Lecturer:** Carlsson

**Faculty Diversity Liaison:** Program Director Rosenblum

## LEARNING OUTCOMES

The Religious Studies curriculum is designed so that, by the time of graduation, students will have developed the following attributes:

1. Proficiency in close reading, interpretation, and written and oral analysis.
2. Proficiency in accessing, appraising, and utilizing a variety of resources and methods for research across disciplinary lines.
3. Proficiency in categorizing, analyzing and comparing diverse systems of value and belief in a variety of contexts.
4. Global and local religious literacy; identifying, evaluating, and interpreting the interrelationships and impact of religious worldviews and communities in Wisconsin, the United States and globally.
5. Ability to conduct and present sustained research on primary sources using methodologies/analysis of religious studies culminating in the senior capstone project.

## ADVISING AND CAREERS

### ADVISING

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cnorman@wisc.edu](mailto:cnorman@wisc.edu) to meet with her. Students are encouraged to meet with Dr. Norman early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning or study abroad opportunities in associate with the major or certificate.

### CAREERS

Religious studies engages a variety of professional disciplines and provides important preparation for thinking, communicating and functioning professionally in a complex, multi-dimensional world.

Religious studies sponsors workshops and other career exploration vehicles, often in collaboration with Career Services, to aid students in articulating the value of religious studies for their career preparation. Student-developed capstone projects in religious studies often make specific connections to experiential learning and career preparation in a range of fields. Talk with Dr. Norman about possibilities for combining internships and other forms of pre-professional training with the major and certificate.

## RELIGIOUS STUDIES, B.S.

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important preparation for thinking, communicating and functioning professionally and personally in a complex, multi-dimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the

prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st](http://guide.wisc.edu/courses/relig_st)) in the Guide.

## HOW TO GET IN

Students who wish to declare their intention to major or earn a certificate in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

To earn a major in religious studies, students must complete at least 30 credits as follows:

Code	Title	Credits
Gateway Courses, select one of the following:		3
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
Capstone Sequence:		
RELIG ST 600 & RELIG ST 601	Religion in Critical Perspective and Senior Capstone Research and Colloquium	7
Additional Courses:		20
Select additional credits in RELIG ST to bring credits in the major to 30. At least 9 credits must be at the 300-level or higher. See Additional Courses Course List below.		
Total Credits		30

**ADDITIONAL COURSES Course List**

<b>Code</b>	<b>Title</b>	<b>Credits</b>			
RELIG ST/E ASIAN/ HISTORY/LCA 308	Introduction to Buddhism	3-4	RELIG ST/AFRICAN/ LCA 370	Islam: Religion and Culture	3-4
RELIG ST/HISTORY/ MEDIEVAL 309	The Crusades: Christianity and Islam	3-4	RELIG ST/ANTHRO/ JEWISH 372	Jews of Central and Eastern Europe	3-4
RELIG ST 311	Sects and Cults	3	RELIG ST/ ART HIST 373	Great Cities of Islam	3
RELIG ST/HISTORY/ MEDIEVAL 312	The Medieval Church	3-4	RELIG ST/ COM ARTS 374	The Rhetoric of Religion	3
RELIG ST/HISTORY/ MEDIEVAL 318	Medieval Social and Intellectual History, 1200-1450	3-4	RELIG ST/ JEWISH 377	Jewish Cultural History (in English)	4
RELIG ST/ SLAVIC 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	RELIG ST/ HISTORY 379	Islam in Iran	3
RELIG ST 327	Christianity and the Almighty Dollar	3	RELIG ST 400	Topics in Religious Studies - Humanities	3-4
RELIG ST/JEWISH/ LITTRANS 328	Classical Rabbinic Literature in Translation	3-4	RELIG ST 401	Topics in Religious Studies - Social Studies	3-4
RELIG ST/HIST SCI/ MED HIST 331	Science, Medicine and Religion	3-4	RELIG ST/LCA 402	Thought of Gandhi	3
RELIG ST/CLASSICS/ HEBR-BIB/JEWISH/ LITTRANS 332	Prophets of the Bible	4	RELIG ST 403	Topics in Religious Studies-US Ethnic Studies	3-5
RELIG ST 333	Early Christian Literature: Matthew-Revelation	3	RELIG ST/LCA 421	A Survey of Tibetan Buddhism	3
RELIG ST/ HISTORY 334	The Reformation	3-4	RELIG ST/ POLI SCI 433	Religion and Politics	3-4
RELIG ST/CLASSICS/ JEWISH 335	King David in History and Tradition	3	RELIG ST/ENGL 434	Milton	3
RELIG ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 342	In Translation: Mythology of Scandinavia	3-4	RELIG ST/JEWISH/ PHILOS 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3
RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4	RELIG ST/ HISTORY 437	Western Christianity from Augustine to Darwin	4
RELIG ST/CLASSICS/ JEWISH 346	Jewish Literature of the Greco-Roman Period	3	RELIG ST/HISTORY/ LCA 438	Buddhism and Society in Southeast Asian History	3-4
RELIG ST/ E ASIAN 350	Introduction to Taoism	3-4	RELIG ST/ HISTORY 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
RELIG ST/ FOLKLORE 352	Shamanism	3	RELIG ST/ MEDIEVAL 440	Francis of Assisi: Literature and the Arts	3
RELIG ST/LCA 355	Hinduism	4	RELIG ST/LCA 444	Introduction to Sufism (Islamic Mysticism)	3
RELIG ST/ENVIR ST/ HIST SCI/LCA 356	Islam, Science & Technology, and the Environment	3-4	RELIG ST/ JEWISH 448	Classical Rabbinic Texts	3
RELIG ST/LCA 357	Literatures of Muslim Societies	3	RELIG ST/E ASIAN/ LCA 466	Buddhist Thought	3
RELIG ST/ FOLKLORE 359	Myth	3	RELIG ST/ HISTORY 470	Religious Thought in Modern Europe	3-4
RELIG ST/ENGL/ HISTORY 360	The Anglo-Saxons	3	RELIG ST 472	Christian Literature: The Gospels	3
RELIG ST 361	Early Christian Literature: Pauline Christianity	3	RELIG ST/ ART HIST 478	Art and Religious Practice in Medieval Japan	3
RELIG ST/ E ASIAN 363	Introduction to Confucianism	3	RELIG ST 500	Advanced Topics in Religious Studies	2-4
RELIG ST/LCA 367	Jainism: Religion of Non-Violence	3	RELIG ST/ PHILOS 501	Philosophy of Religion	3-4
RELIG ST/ HISTORY/JEWISH/ MEDIEVAL 368	The Bible in the Middle Ages	3	RELIG ST/ PHILOS 502	Special Topics in Philosophy of Religion	3
			RELIG ST/CURRIC/ ED POL 516	Religion and Public Education	3
			RELIG ST/CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean	3
			RELIG ST/HISTORY/ JEWISH 529	Intellectual and Religious History of European Jewry, 1648-1939	4



RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
RELIG ST/LCA/ SOC 614	Social Structures of Muslim Societies	3
RELIG ST/ POLI SCI 618	Political Islam	3-4
RELIG ST/LCA 620	Proseminar: Studies in Religions of Asia	3
RELIG ST/LCA 623	Yoga: Methods and Goals	3
RELIG ST/LCA 624	Meditation in Indian Buddhism and Hinduism	3
RELIG ST/LCA 626	Gods and Goddesses of South Asia	3
RELIG ST/LCA/ LEGAL ST 628	Hindu Law	3
RELIG ST/LCA/ SOC 634	Social Structure of India	3
RELIG ST/LCA 650	Proseminar in Buddhist Thought	2-3
RELIG ST/ ANTHRO 666	The Anthropology of Shamanism and Occult Experience	3

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all RELIG ST and major courses

2.000 GPA on 15 upper-level credits for the major, taken in residence<sup>1</sup>

15 credits in RELIG ST or the major, taken on campus

<sup>1</sup> Courses counting as upper level in the major include: RELIG ST/HISTORY 208, RELIG ST/HISTORY 209, RELIG ST/CLASSICS/JEWISH/LITTRANS 227, RELIG ST/ILS 234, RELIG ST/E ASIAN/LCA 235, RELIG ST/CLASSICS/JEWISH/LITTRANS 237, RELIG ST/LITTRANS/MEDIEVAL 253, RELIG ST/LITTRANS 257, RELIG ST/PHILOS 261 and all courses numbered RELIG ST 300–699, except RELIG ST/CLASSICS/HEBR-BIB/JEWISH/LITTRANS 332.

## HONORS IN THE MAJOR

Students may declare Honors in the Religious Studies Major in consultation with the Religious Studies undergraduate advisor.

### HONORS IN THE RELIGIOUS STUDIES MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Religious Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all RELIG ST courses and courses that count for the major
- Complete 19 credits, taken for Honors, with individual grades of B or better, to include:
  - RELIG ST 600 Religion in Critical Perspective
  - RELIG ST 601 Senior Capstone Research and Colloquium
  - 6 credits of intermediate- or advanced-level RELIG ST courses or courses that count for the major
  - A two-semester Senior Honors Thesis in RELIG ST 681 Senior Honors Thesis and RELIG ST 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

The Religious Studies curriculum is designed so that, by the time of graduation, students will have developed the following attributes:

1. Proficiency in close reading, interpretation, and written and oral analysis.
2. Proficiency in accessing, appraising, and utilizing a variety of resources and methods for research across disciplinary lines.
3. Proficiency in categorizing, analyzing and comparing diverse systems of value and belief in a variety of contexts.
4. Global and local religious literacy; identifying, evaluating, and interpreting the interrelationships and impact of religious worldviews and communities in Wisconsin, the United States and globally.
5. Ability to conduct and present sustained research on primary sources using methodologies/analysis of religious studies culminating in the senior capstone project.

## ADVISING AND CAREERS

### ADVISING

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu) to meet with her. Students are encouraged to meet with Dr. Norman early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning or study abroad opportunities in associate with the major or certificate.

### CAREERS

Religious studies engages a variety of professional disciplines and provides important preparation for thinking, communicating and functioning professionally in a complex, multi-dimensional world.

Religious studies sponsors workshops and other career exploration vehicles, often in collaboration with Career Services, to aid students in articulating the value of religious studies for their career preparation. Student-developed capstone projects in religious studies often make specific connections to experiential learning and career preparation in a range of fields. Talk with Dr. Norman about possibilities for combining internships and other forms of pre-professional training with the major and certificate.

Letters & Science Career Services (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)

## PEOPLE

**Professors:** Bell, Bowie, Brenner, Bühnemann, Chamberlain, Cohen, Dale, DuBois, Dunne, Gade, Hansen, Hardin, Hildner, Howard, Hsia, Koshar, Langer, Livorni, Loudon, Nadler, Ohnuki-Tierney, Phillips, Schamiloglu, Schenck, Schweber, Stanford Friedman, Thompson, Wandel, Wink, Wolf, Zaeske

**Associate Professors:** Beneker, Hutton, Livanos, Meulenbeld, Rosenblum, Shelef, Shoemaker, Thal, Todorovic

**Assistant Professors:** Al-Mohammad, Chamedes, Hollander, Mandell, Pruitt

**Visiting Assistant Professors:** Cerulli, Ridgely

**Distinguished Faculty Associate:** Brown

**Faculty Associates:** Mellor, Norman

**Associate Faculty Associates:** Rosenhagen, Whelan

**Lecturer:** Carlsson

**Faculty Diversity Liaison:** Program Director Rosenblum

## RELIGIOUS STUDIES, CERTIFICATE

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important

preparation for thinking, communicating and functioning professionally and personally in a complex, multi-dimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st](http://guide.wisc.edu/courses/relig_st)) in the Guide.

## HOW TO GET IN

Students who wish to declare their intention to major or earn a certificate in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu).

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE IN RELIGIOUS STUDIES

A certificate in religious studies is available to all undergraduates and special students studying at UW–Madison. To earn the certificate, students must complete:

Code	Title	Credits
Gateway Courses, Select one of the following:		3
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
Capstone Course:		
RELIG ST 600	Religion in Critical Perspective	3
Additional Courses, see course list below:		12
Select an additional 12 credits in RELIG ST courses to bring total credits to at least 18 credits. See course list below.		
Total Credits		18

Additional requirements:

- 2.000 GPA in all RELIG ST and certificate courses.
- At least 9 credits for the certificate must be earned in residence.

### ADDITIONAL COURSES COURSE LIST

Code	Title	Credits
RELIG ST/HISTORY/ MIEVEAL 112	The World of Late Antiquity (200-900 C.E.)	4

RELIG ST/ HISTORY 131	Introduction to Christianity: Jesus to the Present	4	RELIG ST/JEWISH/ LITTRANS 328	Classical Rabbinic Literature in Translation	3-4
RELIG ST/ CNSR SCI 173	Consuming Happiness	3	RELIG ST/HIST SCI/ MED HIST 331	Science, Medicine and Religion	3-4
RELIG ST 200	Introductory Topics in Religious Studies (Humanities)	3-4	RELIG ST/CLASSICS/ HEBR-BIB/JEWISH/ LITTRANS 332	Prophets of the Bible	4
RELIG ST/HISTORY/ LCA 205	The Making of the Islamic World: The Middle East, 500-1500	3-4	RELIG ST 333	Early Christian Literature: Matthew-Revelation	3
RELIG ST/LCA 206	Introduction to the Qur'an	4	RELIG ST/ HISTORY 334	The Reformation	3-4
RELIG ST/ HISTORY 208	Western Intellectual and Religious History to 1500	3-4	RELIG ST/CLASSICS/ JEWISH 335	King David in History and Tradition	3
RELIG ST/ HISTORY 209	Western Intellectual and Religious History since 1500	3-4	RELIG ST/ FOLKLORE/ LITTRANS/ MIEVEAL 342	In Translation: Mythology of Scandinavia	3-4
RELIG ST/ JEWISH 211	Introduction to Judaism	4	RELIG ST/ ANTHRO 343	Anthropology of Religion	3-4
RELIG ST/ HISTORY 212	The History of Western Christianity to 1750	4	RELIG ST/CLASSICS/ JEWISH 346	Jewish Literature of the Greco-Roman Period	3
RELIG ST/ CLASSICS/JEWISH/ LITTRANS 227	Introduction to Biblical Literature (in English)	4	RELIG ST/ E ASIAN 350	Introduction to Taoism	3-4
RELIG ST/ HISTORY 230	Judaism, Christianity, and Islam: Braided Histories	3	RELIG ST/ FOLKLORE 352	Shamanism	3
RELIG ST/ILS 234	Genres of Western Religious Writing	3	RELIG ST/LCA 355	Hinduism	4
RELIG ST/E ASIAN/ LCA 235	Genres of Asian Religious Writing	3	RELIG ST/ENVIR ST/ HIST SCI/LCA 356	Islam, Science & Technology, and the Environment	3-4
RELIG ST/ CLASSICS/JEWISH/ LITTRANS 237	Biblical Poetry in Translation	3	RELIG ST/LCA 357	Literatures of Muslim Societies	3
RELIG ST/LITTRANS/ MIEVEAL 253	Literature in Translation: Dante's Divine Comedy	3	RELIG ST/ FOLKLORE 359	Myth	3
RELIG ST/ LITTRANS 257	Literatures of Muslim Societies in Translation	3	RELIG ST/ENGL/ HISTORY 360	The Anglo-Saxons	3
RELIG ST/ PHILOS 261	Introduction to the Philosophy of Religion	3-4	RELIG ST 361	Early Christian Literature: Pauline Christianity	3
RELIG ST/E ASIAN/ HISTORY 267	Asian Religions in Global Perspective	3	RELIG ST/ E ASIAN 363	Introduction to Confucianism	3
RELIG ST/ ENVIR ST 270	Environment and Religion	3-4	RELIG ST/LCA 367	Jainism: Religion of Non-Violence	3
RELIG ST 271	Religion in History and Culture: The West	3	RELIG ST/ HISTORY/JEWISH/ MIEVEAL 368	The Bible in the Middle Ages	3
RELIG ST/LCA 274	Religion in South Asia	3	RELIG ST/AFRICAN/ LCA 370	Islam: Religion and Culture	3-4
RELIG ST/ JEWISH 278	Food in Rabbinic Judaism	3-4	RELIG ST/ANTHRO/ JEWISH 372	Jews of Central and Eastern Europe	3-4
RELIG ST/E ASIAN/ HISTORY/LCA 308	Introduction to Buddhism	3-4	RELIG ST/ ART HIST 373	Great Cities of Islam	3
RELIG ST/HISTORY/ MIEVEAL 309	The Crusades: Christianity and Islam	3-4	RELIG ST/ COM ARTS 374	The Rhetoric of Religion	3
RELIG ST 311	Sects and Cults	3	RELIG ST/ JEWISH 377	Jewish Cultural History (in English)	4
RELIG ST/HISTORY/ MIEVEAL 312	The Medieval Church	3-4	RELIG ST/ HISTORY 379	Islam in Iran	3
RELIG ST/HISTORY/ MIEVEAL 318	Medieval Social and Intellectual History, 1200-1450	3-4	RELIG ST 400	Topics in Religious Studies - Humanities	3-4
RELIG ST/ SLAVIC 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3	RELIG ST 401	Topics in Religious Studies - Social Studies	3-4
RELIG ST 327	Christianity and the Almighty Dollar	3			

RELIG ST/LCA 402	Thought of Gandhi	3
RELIG ST 403	Topics in Religious Studies-US Ethnic Studies	3-5
RELIG ST/LCA 421	A Survey of Tibetan Buddhism	3
RELIG ST/ POLI SCI 433	Religion and Politics	3-4
RELIG ST/ENGL 434	Milton	3
RELIG ST/JEWISH/ PHILOS 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3
RELIG ST/ HISTORY 437	Western Christianity from Augustine to Darwin	4
RELIG ST/HISTORY/ LCA 438	Buddhism and Society in Southeast Asian History	3-4
RELIG ST/ HISTORY 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
RELIG ST/ MEDIEVAL 440	Francis of Assisi: Literature and the Arts	3
RELIG ST/LCA 444	Introduction to Sufism (Islamic Mysticism)	3
RELIG ST/ JEWISH 448	Classical Rabbinic Texts	3
RELIG ST/E ASIAN/ LCA 466	Buddhist Thought	3
RELIG ST/ HISTORY 470	Religious Thought in Modern Europe	3-4
RELIG ST 472	Christian Literature: The Gospels	3
RELIG ST/ ART HIST 478	Art and Religious Practice in Medieval Japan	3
RELIG ST 500	Advanced Topics in Religious Studies	2-4
RELIG ST/ PHILOS 501	Philosophy of Religion	3-4
RELIG ST/ PHILOS 502	Special Topics in Philosophy of Religion	3
RELIG ST/CURRIC/ ED POL 516	Religion and Public Education	3
RELIG ST/CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean	3
RELIG ST/HISTORY/ JEWISH 529	Intellectual and Religious History of European Jewry, 1648-1939	4
RELIG ST/HISTORY/ LCA 547	Religion, Colonialism & Modernity in Southeast Asia	3
RELIG ST/LCA/ SOC 614	Social Structures of Muslim Societies	3
RELIG ST/ POLI SCI 618	Political Islam	3-4
RELIG ST/LCA 620	Proseminar: Studies in Religions of Asia	3
RELIG ST/LCA 623	Yoga: Methods and Goals	3
RELIG ST/LCA 624	Meditation in Indian Buddhism and Hinduism	3
RELIG ST/LCA 626	Gods and Goddesses of South Asia	3
RELIG ST/LCA/ LEGAL ST 628	Hindu Law	3
RELIG ST/LCA/ SOC 634	Social Structure of India	3

RELIG ST/LCA 650	Proseminar in Buddhist Thought	2-3
RELIG ST/ ANTHRO 666	The Anthropology of Shamanism and Occult Experience	3

## LEARNING OUTCOMES

The Religious Studies curriculum is designed so that, by the time of graduation, students will have developed the following attributes:

1. Proficiency in close reading, interpretation, and written and oral analysis.
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## ADVISING AND CAREERS

### ADVISING

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu) to meet with her. Students are encouraged to meet with Dr. Norman early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning or study abroad opportunities in associate with the major or certificate.

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Letters & Science Career Services (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)

## PEOPLE

**Professors:** Bell, Bowie, Brenner, Bühnemann, Chamberlain, Cohen, Dale, DuBois, Dunne, Gade, Hansen, Hardin, Hildner, Howard, Hsia, Koshar, Langer, Livorni, Loudon, Nadler, Ohnuki-Tierney, Phillips, Schamiloglu, Schenck, Schweber, Stanford Friedman, Thompson, Wandel, Wink, Wolf, Zaeske

**Associate Professors:** Beneker, Hutton, Livanos, Meulenbeld, Rosenblum, Shelef, Shoemaker, Thal, Todorovic

**Assistant Professors:** Al-Mohammad, Chamedes, Hollander, Mandell, Pruitt

**Visiting Assistant Professors:** Cerulli, Ridgely

**Distinguished Faculty Associate:** Brown

**Faculty Associates:** Mellor, Norman

**Associate Faculty Associates:** Rosenhagen, Whelan

**Lecturer:** Carlsson

**Faculty Diversity Liaison:** Program Director Rosenblum

want to earn degree credit for their internships should consult with career advisor Pam Garcia-Rivera **before they accept an internship**. Students must enroll in JOURN 697 at the time they hold the internship.

JOURN 697 does not count as part of the 30 minimum journalism credits required for graduation. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## JOB INFORMATION SERVICE

The school provides a job listing service at this link (<http://journalism.wisc.edu/career-services/current-listings>) on its website. Questions concerning that can be directed to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services>) or with the undergraduate career advisor for specific information.

## SCHOOL OF JOURNALISM AND MASS COMMUNICATION

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the journalism program. Students are required to complete at least one of the two tracks described below.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

## PRACTICAL EXPERIENCE: ORGANIZATIONS

The school encourages students to gain practical experience through part-time jobs and internships. Student media include (but are not limited to) *The Daily Cardinal*, the *Badger Herald* (<http://www.badgerherald.com>), WSUM radio (<http://wsum.wisc.edu>) and the Wisconsin Union Directorate Publications (<https://union.wisc.edu/get-involved/wud/publications>). Student organizations related to the school and major include (but are not limited to) the Public Relations Student Society of America (PRSSA), the Advertising Club, the Society of Professional Journalists (SPJ) and the Association for Women in Communication (AWC). Professionals from the media and related fields appear often in classes and meet with students in professional student organizations.

## INTERNSHIPS

Students planning careers as media professionals are encouraged to hold one or more internships in the area of their academic specialization(s).

**Declared journalism majors** or prospective journalism majors with no other declared major may earn course credit for internships that relate to their professional tracks. As part of their degree programs, students may earn a maximum of 3 credits of JOURN 697 Internship during their undergraduate careers. Students may only earn one credit of JOURN 697 per semester, but may repeat the credit up to three times. Students who

## DEGREES/MAJORS/CERTIFICATES

- Journalism, JBA (p. 1045)
- Journalism, JBS (p. 1049)

## PEOPLE

Professors Baughman, Blum, Downey, Drechsel, Dunwoody, Fair, Friedland, Gunther, McLeod, Mitchell, Rojas, D. Shah, H. Shah (director), Vaughn

Associate Professors Kim, Riddle, Robinson

Assistant Professors Culver, Graves, Hull, Palmer, Steenson, Wagner, Wells

## JOURNALISM, JBA

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the journalism program. Students are required to complete at least one of the two tracks described below.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

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JOURN 697 does not count as part of the 30 minimum journalism credits required for graduation. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## HOW TO GET IN

### ADMISSION TO THE JOURNALISM DEGREE PROGRAM

Students who wish to declare themselves as degree candidates in journalism must submit an application to the School of Journalism and Mass Communication (SJMC). Applications are accepted each fall and spring semester for admission the following semester. Prospective degree candidates must present to the school a record of academic achievement, writing ability and extracurricular participation that indicate a probability of success in some field of communication.

In order to apply for admission to the school, students must have met the following requirements:

- A minimum of 24 credits completed by the end of the semester in which they apply, including transfer credits but excluding AP and retroactive language credits.
- Completion of JOURN 201 Introduction to Mass Communication by the end of the semester in which they apply. Students may have no more than 16 credits in Journalism courses taken at UW–Madison when applying for admission.

Transfer students must be enrolled for at least one semester at UW–Madison before applying for admission to the SJMC (their first semester may be in progress at the time they submit their application). Students transferring journalism course credit from other colleges and universities should check their record of transferred credit with the SJMC undergraduate academic advisor. The academic advisor is available for consultation at most SOAR orientation sessions for transfer students.

The number of students to be admitted in a given semester is subject to change based on the school's capacity to provide adequate access

to required courses. Admissions decisions are based on the entire application, with particular emphasis on academic performance and writing ability. Specific guidelines for submitting the application portfolio are available online at this link (<http://journalism.wisc.edu/undergraduate/admissions/the-application>) or in SJMC academic advising. The academic advisor conducts one-hour information sessions for applicants each semester, with dates and times listed on the application; these sessions are highly recommended and provide more information for applicants than is possible in a one-on-one advising meeting.

After admission to the school, the student's classification will be changed to JBA or JBS to reflect this change in status.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF ARTS DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW-Madison

2.000 in intermediate/advanced coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Introduction to Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 202	Mass Communication Practices	6
<b>Introductory Social Science: three courses from three areas, one of which must be either POLI SCI or ECON:</b>		
<i>Anthropology:</i>		
ANTHRO 100	General Anthropology	
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 104	Cultural Anthropology and Human Diversity	

### *Economics:*

ECON 100	Economic Approach to Current Issues
ECON 101	Principles of Microeconomics
ECON 102	Principles of Macroeconomics
ECON 111	Principles of Economics-Accelerated Treatment

### *Geography:*

GEOG 101	Introduction to Human Geography
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography

### *Integrated Liberal Studies:*

ILS 205	Western Culture: Political, Economic, and Social Thought I
ILS 206	Western Culture: Political, Economic, and Social Thought II
ILS 208	History of Western Culture II
ILS 209	Introduction to Global Cultures

### *Philosophy:*

PHILOS 101	Introduction to Philosophy
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### *Political Science:*

POLI SCI 104	Introduction to American Politics and Government
POLI SCI 140	Introduction to International Relations
POLI SCI 181	Topics in Political Analysis-Honors
POLI SCI 182	Politics Around the World (Honors)
POLI SCI 184	Introduction to American Politics

### *Psychology:*

PSYCH 201	Introduction to Psychology
PSYCH 202	Introduction to Psychology
PSYCH 281	Honors Course-Introduction to Psychology

### *Sociology:*

SOC 120	Marriage and Family
SOC 125	American Society: How It Really Works
SOC 130	Social Problems
SOC/LEGAL ST 131	Criminal Justice in America
SOC 134	Problems of American Racial and Ethnic Minorities
SOC 138	The Sociology of Gender
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology
SOC/PSYCH 160	Human Sexuality: Social and Psychological Issues
SOC 170	Population Problems
SOC 181	Honors Introductory Seminar-The Sociological Enterprise

### Intermediate/Advanced Social Sciences or Humanities Courses

Take courses with an I, A or D level and H, S, L or Z Breadth<sup>2</sup>

12

One course must be from HISTORY

Total Credits 31

<sup>1</sup> Courses cross-listed in JOURN (e.g., HISTORY/JOURN 560) may not count toward this requirement.

## THEORIES AND TOPICS

Code	Title	Credits
<b>Three courses, to include one from each group</b>		
9-12		

### Group B:

JOURN/ HISTORY 560	History of Mass Communication	
JOURN 561	Mass Communication and Society	
JOURN 563	Law of Mass Communication	
JOURN 564	Media and the Consumer	
JOURN 565	Effects of Mass Communication	

### Group C:

JOURN 614	Communication and Public Opinion	
JOURN/ COM ARTS/HDFS/ LSC 616	Mass Media and Youth	
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	
JOURN 618	Mass Communication and Political Behavior	
JOURN 620	International Communication	
JOURN 621	Mass Communication in Developing Nations	
JOURN/ ART HIST/ HISTORY/ L I S 650	History of Books and Print Culture in Europe and North America	
JOURN 658	Communication Research Methods	
JOURN/ ASIAN AM 662	Mass Media and Minorities	
JOURN 666	Professional Responsibility in Mass Communication	
JOURN 669	Literary Aspects of Journalism	
JOURN 670	Community Service Learning: Technology for Social Change	
JOURN 675	Topics in Government and Mass Media	
JOURN 676	Special Topics in Mass Communication	
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	

Total Credits 9-12

## TRACKS

Students must complete one of two tracks: **Journalism**, which focuses on reporting, or **Strategic Communication**, which focuses on forms of persuasive communication that includes advertising and public relations).<sup>3</sup>

Complete one track:

## Journalism

Code	Title	Credits
JOURN 335	Principles and Practices of Reporting	4
<b>Advanced Reporting - one course:</b>		4
JOURN 401	In-Depth Reporting	
JOURN 404	Interpretation of Contemporary Affairs	
JOURN 405	Creative Nonfiction	
JOURN 411	Multimedia Design	
JOURN 415	Science and Environmental Journalism	
JOURN 417	Magazine Publishing	
JOURN 419	Electronic News for Web and Broadcast	
JOURN 420	Investigative Reporting	
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	
Total Credits		8

## Strategic Communication

Code	Title	Credits
JOURN 345	Principles and Practice of Strategic Communication	4
<b>Advanced Strategic Communication—one course:</b>		4
JOURN 411	Multimedia Design	
JOURN 417	Magazine Publishing	
JOURN 419	Electronic News for Web and Broadcast	
JOURN 445	Creative Campaign Messages	
JOURN 447	Strategic Media Planning	
JOURN 449	Account Planning and Strategy	
JOURN 463	Digital Media Strategies	
JOURN 464	Public Relations Strategies	
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	
Total Credits		8

<sup>2</sup> Special Topics courses may count for either track, or no track, depending on Topic. Consult the advisor for this major to determine eligibility of JOURN 475 to meet a major requirement.

<sup>3</sup> Students planning to complete both tracks should consult with the undergraduate academic advisor about course availability and planning.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all JOURN and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>4</sup>

15 credits in JOURN, taken on the UW–Madison campus

<sup>4</sup> JOURN 400–699 are upper level in the major.



## HONORS IN THE MAJOR

Students may declare Honors in the Journalism Major in consultation with the Journalism undergraduate advisor.

### HONORS IN THE JOURNALISM MAJOR REQUIREMENTS

To earn a J.B.A. or J.B.S. with Honors in the Major in Journalism students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all JOURN courses and courses that count toward the major
- Complete two courses in each of the Group B and Group C Theories and Topics groupings, with a grade of B or better in each individual course
- Complete a two-semester of Senior Honors Thesis in JOURN 681 Senior Honors Thesis and JOURN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Convey information and express ideas effectively in contemporary media.
2. Understand the responsible and ethical use of mass media.
3. Appreciate the media's relationship with social, political, legal and economic systems.
4. Think strategically, creatively and critically, to solve problems in a professional context.

## ADVISING AND CAREERS

### JOB INFORMATION SERVICE

The school provides a job listing service at current listings (<https://journalism.wisc.edu/career-services/current-listings>) on the SJMC

website. Questions concerning that can be directed to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services>) or with the undergraduate career advisor for specific information.

## PEOPLE

Professor and Director: H. Shah

Professors Downey, Friedland, McLeod, Rojas, D. Shah

Associate Professors Kim, Riddle, Robinson, Wagner, Wells

Assistant Professors Culver, Graves, McGarr, Palmer

## JOURNALISM, JBS

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the journalism program. Students are required to complete at least one of the two tracks described below.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

## PRACTICAL EXPERIENCE: ORGANIZATIONS

The school encourages students to gain practical experience through part-time jobs and internships. Student media include (but are not limited to) *The Daily Cardinal*, the *Badger Herald* (<http://www.badgerherald.com>), WSUM radio (<http://wsum.wisc.edu>) and the Wisconsin Union Directorate Publications (<https://union.wisc.edu/get-involved/wud/publications>). Student organizations related to the school and major include (but are not limited to) the Public Relations Student Society of America (PRSSA), the Advertising Club, the Society of Professional Journalists (SPJ) and the Association for Women in Communication (AWC). Professionals from the media and related fields appear often in classes and meet with students in professional student organizations.

## INTERNSHIPS

Students planning careers as media professionals are encouraged to hold one or more internships in the area of their academic specialization(s). **Declared journalism majors** or prospective journalism majors with no other declared major may earn course credit for internships that relate to their professional tracks. As part of their degree programs, students

may earn a maximum of 3 credits of JOURN 697 Internship during their undergraduate careers. Students may only earn one credit of JOURN 697 per semester, but may repeat the credit up to three times. Students who want to earn degree credit for their internships should consult with career advisor Pam Garcia-Rivera **before they accept an internship**. Students must enroll in JOURN 697 at the time they hold the internship.

JOURN 697 does not count as part of the 30 minimum journalism credits required for graduation. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## HOW TO GET IN

### ADMISSION TO THE JOURNALISM DEGREE PROGRAM

Students who wish to declare themselves as degree candidates in journalism must submit an application to the School of Journalism and Mass Communication (SJMC). Applications are accepted each fall and spring semester for admission the following semester. Prospective degree candidates must present to the school a record of academic achievement, writing ability and extracurricular participation that indicate a probability of success in some field of communication.

In order to apply for admission to the school, students must have met the following requirements:

- A minimum of 24 credits completed by the end of the semester in which they apply, including transfer credits but excluding AP and retroactive language credits.
- Completion of JOURN 201 Introduction to Mass Communication by the end of the semester in which they apply. Students may have no more than 16 credits in Journalism courses taken at UW–Madison when applying for admission.

Transfer students must be enrolled for at least one semester at UW–Madison before applying for admission to the SJMC (their first semester may be in progress at the time they submit their application). Students transferring journalism course credit from other colleges and universities should check their record of transferred credit with the SJMC undergraduate academic advisor. The academic advisor is available for consultation at most SOAR orientation sessions for transfer students.

The number of students to be admitted in a given semester is subject to change based on the school's capacity to provide adequate access to required courses. Admissions decisions are based on the entire application, with particular emphasis on academic performance and writing ability. Specific guidelines for submitting the application portfolio are available online at this link (<http://journalism.wisc.edu/undergraduate/admissions/the-application>) or in SJMC academic advising. The academic advisor conducts one-hour information sessions for applicants each semester, with dates and times listed on the application; these sessions are highly recommended and provide more information for applicants than is possible in a one-on-one advising meeting.

After admission to the school, the student's classification will be changed to JBA or JBS to reflect this change in status.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Introduction to Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 202	Mass Communication Practices	6
<b>Introductory Social Science: three courses from three areas, one of which must be either POLI SCI or ECON:</b>		9
<i>Anthropology:</i>		
ANTHRO 100	General Anthropology	
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 104	Cultural Anthropology and Human Diversity	
<i>Economics:</i>		
ECON 100	Economic Approach to Current Issues	
ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<i>Geography:</i>		
GEOG 101	Introduction to Human Geography	
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	
<i>Integrated Liberal Studies:</i>		
ILS 205	Western Culture: Political, Economic, and Social Thought I	
ILS 206	Western Culture: Political, Economic, and Social Thought II	
ILS 208	History of Western Culture II	
ILS 209	Introduction to Global Cultures	

<i>Philosophy:</i>	
PHILOS 101	Introduction to Philosophy
<i>Political Science:</i>	
POLI SCI 104	Introduction to American Politics and Government
POLI SCI 140	Introduction to International Relations
POLI SCI 181	Topics in Political Analysis-Honors
POLI SCI 182	Politics Around the World (Honors)
POLI SCI 184	Introduction to American Politics
<i>Psychology:</i>	
PSYCH 201	Introduction to Psychology
PSYCH 202	Introduction to Psychology
PSYCH 281	Honors Course-Introduction to Psychology
<i>Sociology:</i>	
SOC 120	Marriage and Family
SOC 125	American Society: How It Really Works
SOC 130	Social Problems
SOC/LEGAL ST 131	Criminal Justice in America
SOC 134	Problems of American Racial and Ethnic Minorities
SOC 138	The Sociology of Gender
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology
SOC/PSYCH 160	Human Sexuality: Social and Psychological Issues
SOC 170	Population Problems
SOC 181	Honors Introductory Seminar-The Sociological Enterprise
<b>Intermediate/Advanced Social Sciences or Humanities Courses</b>	<b>12</b>
Take courses with an I, A or D level and H, S, L or Z Breadth <sup>2</sup>	
<i>One course must be from HISTORY</i>	
Total Credits	31

<sup>1</sup> Courses cross-listed in JOURN (e.g., HISTORY/JOURN 560) **may not count** toward this requirement.

## THEORIES AND TOPICS

Code	Title	Credits
<b>Three courses, to include one from each group</b>		
<i>Group B:</i>		
JOURN/HISTORY 560	History of Mass Communication	
JOURN 561	Mass Communication and Society	
JOURN 563	Law of Mass Communication	
JOURN 564	Media and the Consumer	
JOURN 565	Effects of Mass Communication	
<i>Group C:</i>		
JOURN 614	Communication and Public Opinion	

JOURN/ COM ARTS/HDFS/ LSC 616	Mass Media and Youth
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
JOURN 618	Mass Communication and Political Behavior
JOURN 620	International Communication
JOURN 621	Mass Communication in Developing Nations
JOURN/ ART HIST/ HISTORY/ L I S 650	History of Books and Print Culture in Europe and North America
JOURN 658	Communication Research Methods
JOURN/ ASIAN AM 662	Mass Media and Minorities
JOURN 666	Professional Responsibility in Mass Communication
JOURN 669	Literary Aspects of Journalism
JOURN 670	Community Service Learning: Technology for Social Change
JOURN 675	Topics in Government and Mass Media
JOURN 676	Special Topics in Mass Communication
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization
Total Credits 9-12	

## TRACKS

Students must complete one of two tracks: **Journalism**, which focuses on reporting, or **Strategic Communication**, which focuses on forms of persuasive communication that includes advertising and public relations).<sup>3</sup>

Complete one track:

Journalism		
Code	Title	Credits
JOURN 335	Principles and Practices of Reporting	4
<b>Advanced Reporting - one course:</b> 4		
JOURN 401	In-Depth Reporting	
JOURN 404	Interpretation of Contemporary Affairs	
JOURN 405	Creative Nonfiction	
JOURN 411	Multimedia Design	
JOURN 415	Science and Environmental Journalism	
JOURN 417	Magazine Publishing	
JOURN 419	Electronic News for Web and Broadcast	
JOURN 420	Investigative Reporting	

JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	
Total Credits		8
<b>Strategic Communication</b>		
Code	Title	Credits
JOURN 345	Principles and Practice of Strategic Communication	4
<b>Advanced Strategic Communication—one course:</b>		4
JOURN 411	Multimedia Design	
JOURN 417	Magazine Publishing	
JOURN 419	Electronic News for Web and Broadcast	
JOURN 445	Creative Campaign Messages	
JOURN 447	Strategic Media Planning	
JOURN 449	Account Planning and Strategy	
JOURN 463	Digital Media Strategies	
JOURN 464	Public Relations Strategies	
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	
Total Credits		8

<sup>2</sup> Special Topics courses may count for either track, or no track, depending on Topic. Consult the advisor for this major to determine eligibility of JOURN 475 to meet a major requirement.

<sup>3</sup> Students planning to complete both tracks should consult with the undergraduate academic advisor about course availability and planning.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all JOURN and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>4</sup>

15 credits in JOURN, taken on the UW–Madison campus

<sup>4</sup> JOURN 400–699 are upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Journalism Major in consultation with the Journalism undergraduate advisor.

## HONORS IN THE JOURNALISM MAJOR REQUIREMENTS

To earn a J.B.A. or J.B.S. with Honors in the Major in Journalism students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all JOURN courses and courses that count toward the major
- Complete two courses in each of the Group B and Group C Theories and Topics groupings, with a grade of B or better in each individual course
- Complete a two-semester of Senior Honors Thesis in JOURN 681 Senior Honors Thesis and JOURN 682 Senior Honors Thesis, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Convey information and express ideas effectively in contemporary media.
2. Understand the responsible and ethical use of mass media.
3. Appreciate the media's relationship with social, political, legal and economic systems.
4. Think strategically, creatively and critically, to solve problems in a professional context.

## ADVISING AND CAREERS

### JOB INFORMATION SERVICE

The school provides a job listing service at current listings (<https://journalism.wisc.edu/career-services/current-listings>) on the SJMC website. Questions concerning that can be directed to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services>) or with the undergraduate career advisor for specific information.

## PEOPLE

Professor and Director: H. Shah

Professors Downey, Friedland, McLeod, Rojas, D. Shah

Associate Professors Kim, Riddle, Robinson, Wagner, Wells

Assistant Professors Culver, Graves, McGarr, Palmer

## SOCIAL WORK

Social work's special contribution rests on an established body of knowledge, values and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities.

Undergraduates in the School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts.

Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers such areas as aging, family and child welfare, poverty, mental health, developmental disabilities, alcohol and drug abuse, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

## MISSION

The mission of the UW–Madison School of Social Work is to enhance human well-being and promote human rights and social and economic justice for people who are disadvantaged to achieve an equitable, healthy, and productive society. The school aims to:

- Create, advance, strengthen, and integrate interdisciplinary knowledge for students and the profession through research, scholarship, teaching and practice.
- Educate students to become highly skilled, culturally competent and ethical practitioners who will provide effective leadership for the profession of social work within the State of Wisconsin, nationally, and internationally.
- Promote change at levels ranging from the individual to national and international policy, including empowering communities and populations that are disadvantaged and developing humane service delivery systems.
- Create and disseminate knowledge regarding the prevention and amelioration of social problems.

## UNDERGRADUATE DEGREE PROGRAMS

The School of Social Work offers a **bachelor of social work (BSW)** degree or a **bachelor of arts (B.A.)** or **bachelor of science (B.S.)** degree with a major in social welfare. The BSW and the social welfare major prepare students for further academic study or for employment in selected human service arenas. The BSW prepares students as beginning-level professional social workers. The social welfare major offers an overview of current social problems.

## HONORS IN THE MAJOR

Honors in the Major for social welfare majors and bachelor of social work students prepare undergraduates for research and scholarship in social work. Students interested in completing the requirements for Honors in the Major should consult with and apply for admission to the program with the social work academic advisor. Majors declare their intention to enter the program no later than the end of the spring semester of the junior year. Students must make arrangements with a faculty member

to sponsor their research project before being admitted to the honors program.

Requirements for Honors in the Major include the following:

1. a signed agreement between the student and the faculty research advisor sponsoring the Senior Honors Research Thesis;
2. completion of the majors' statistics requirement;
3. completion of SOC WORK 650 Methods of Social Work Research;
4. completion of one social work elective related to honors thesis research topic;
5. completion of the Senior Honors Research Thesis (SOC WORK 681 Senior Honors Thesis and SOC WORK 682 Senior Honors Thesis);
6. completion of SOC WORK 579 Special Topics in Social Work: Faculty Research Seminar in the fall semester of the senior year;
7. and, presentation of the thesis results at a department colloquium.

Honors in the Major students are expected to maintain at least a minimum cumulative GPA of 3.4 and complete the regular major requirements and an overall GPA of at least 3.3 in all courses taken at UW–Madison. Students are encouraged to apply to the Honors in the Major as early as possible, but no later than the spring semester of their junior year.

## HONORS IN THE MAJOR PROCEDURES

- Meet with an academic advisor to discuss Honors in the Major requirements.
- Determine faculty research advisor (no later than end of the spring semester of junior year). The faculty research advisor for the senior honors thesis should be consulted about the project as early as possible to formulate a topic.
- Declare entry into Honors in the Major (no later than the end of the spring semester of junior year).
- Submit signed Faculty Advisor Agreement form to the academic advisor.

## HONORS IN THE MAJOR COURSE REQUIREMENTS

Code	Title	Credits
<b>By the end of the Junior Year complete:</b>		
<i>Statistics</i>		
STAT 301 or STAT 371	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
PSYCH 210 or PSYCH 280	Basic Statistics for Psychology Honors Basic Statistics for Psychology	3
<i>Social Work</i>		
SOC WORK 650	Methods of Social Work Research	3
Soc Work Elective (related to thesis topic)		
<b>Fall Semester of Senior Year</b>		
SOC WORK 579	Special Topics in Social Work	1
SOC WORK 681	Senior Honors Thesis	3
<b>Spring Semester of Senior Year</b>		
SOC WORK 682	Senior Honors Thesis	3
Thesis Presentation		

## INDEPENDENT WORK

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website. Consent of instructor is required for the following course offerings in independent work:

Code	Title	Credits
SOC WORK 681 & SOC WORK 682	Senior Honors Thesis and Senior Honors Thesis (year-long course)	6
SOC WORK 691 & SOC WORK 692	Senior Thesis and Senior Thesis (year-long course)	4
SOC WORK 699	Directed Study	1-3

## 15 CREDIT RULE

All students are required to fulfill the L&S requirement of **15 credits of upper-level work in the major** taken in residence. Courses that count toward this requirement for Social Work and Social Welfare are:

Code	Title	Credits
SOC WORK 650	Methods of Social Work Research	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
PSYCH 225	Research Methods	4
SOC WORK 457	Human Behavior and the Environment	3
SOC WORK 640	Social Work with Ethnic and Racial Groups	3
SOC WORK 441	Generalist Practice with Individuals, Families and Groups	1-3
SOC WORK 442	Generalist Practice with Communities and Organizations	1-2
SOC WORK 612	Psychopathology for Generalist Social Work Practice	3

Social work electives designated as I or A.

## CERTIFICATE PROGRAMS

BSW students and social welfare majors often choose the following certificate programs: American Indian studies, business, criminal justice, gender and women's studies, gerontology, global cultures, global health, LGBT studies, and religious studies.

## ACCREDITATION

The BSW program is accredited by the Council on Social Work Education (CSWE). The social welfare major is accredited along with the rest of the College of Letters and Science by the Higher Learning Commission.

## GRADUATE SCHOOL

BSW students completing professional foundation courses with a grade of B or better are eligible for advanced standing in the master's program. For more information see the School of Social Work website FAQs on "Admissions: Advanced Standing & Exemptions (<https://socwork.wisc.edu/fulltimemsw-faq>)."

## DEGREES/MAJORS/CERTIFICATES

- Social Welfare, B.A. (p. 1055)
- Social Welfare, B.S. (p. 1060)
- Social Work, BSW (p. 1066)

## PEOPLE

Professors: Lawrence M. Berger, MSW, Ph.D.; Aaron Brower, MSW, Ph.D.; Maria Cancian Ph.D.; Jan Steven Greenberg, MSSW, Ph.D.; Betty J. Kramer, MSSW, Ph.D.; Katherine Magnuson, Ph.D.; Marsha Mailick, Ph.D.; Daniel R. Meyer, MSW, Ph.D.; Stephanie A. Robert, MSW, Ph.D.; Kristen Shook Slack, A.M., Ph.D.

Associate Professors: Marah A. Curtis, MSW, Ph.D.; Tally Moses, MSW, Ph.D.; Tracy Schroeffer, MSW, Ph.D.

Assistant Professors: Lauren Bishop-Fitzpatrick, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tova Walsh, MSW, Ph.D.; Yang Sao Xiong, Ph.D.

Clinical Associate Professor: Ellen Smith, MSSW

Clinical Assistant Professors: Audrey Conn, MSSW, APSW; Amanda Ngola, MSW, LCSW; Angela Willits, MSW, LCSW

## SOCIAL WELFARE, B.A.

The School of Social Work offers two undergraduate programs: the bachelor of arts (B.A.) or bachelor of science (B.S.) degree with a major in social welfare; and the bachelor of social work (BSW) degree. Those who are interested in the professional social work degree (BSW) begin by declaring the social welfare major, applying to the BSW program in their junior year and, if accepted, changing their major to the BSW for their senior year.

## HOW TO GET IN

Regardless of program of interest, students begin their course of study by taking SOC WORK 205 Introduction to the Field of Social Work and SOC WORK 206 Introduction to Social Policy in either the freshman or sophomore year. Students can declare the social welfare major as early as the freshman year as long as they are enrolled in SOC WORK 205 and/or SOC WORK 206 and meet the L&S requirement of a minimum cumulative GPA of 2.0. More typically, students declare the major in the sophomore year while in or having completed SOC WORK 205 and/or SOC WORK 206. To declare the major, students should make an appointment and meet with one of the two social work academic advisors at the School of Social Work.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum 2.000 in all coursework at UW-Madison

GPA 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

### SOCIAL WELFARE POLICY AND SERVICES

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

### SOCIAL SCIENCE CONCENTRATION

Select two intermediate- or advanced-level courses (I or A) from one of the following social science departments.<sup>1</sup>

Note: Completion of an elementary-level course may be a prerequisite to being able to take an I or A course.

### AFRO-AMERICAN STUDIES

Code	Title	Credits
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/GEN&WS 333	Black Feminisms	3
AFROAMER/HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/HIST SCI/MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ED POL 567	History of African American Education	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3

AFROAMER 673	Selected Topics in Afro-American Society	3
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### AMERICAN INDIAN STUDIES

Code	Title	Credits
AMER IND/ANTHRO 314	Indians of North America	3
AMER IND/ANTHRO 353	Indians of the Western Great Lakes	3
AMER IND/LSC 444	Native American Environmental Issues and the Media	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/HISTORY 490	American Indian History	3-4
AMER IND/HDFS 522	American Indian Families	3
AMER IND/C&E SOC/SOC 578	Poverty and Place	3

### ANTHROPOLOGY

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 330	Topics in Ethnology	3-4
ANTHRO/RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/AMER IND 353	Indians of the Western Great Lakes	3
ANTHRO 365	Medical Anthropology	3
ANTHRO/GEN&WS 443	Anthropology by Women	3
ANTHRO 448	Anthropology of Law	3
ANTHRO 477	Anthropology, Environment, and Development	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ED POL 570	Anthropology and Education	3

### ASIAN AMERICAN STUDIES

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM/HISTORY/LCA 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN AM/E A STDS/HISTORY 276	Chinese Migrations since 1500	3-4
ASIAN AM/AFROAMER 443	Mutual Perceptions of Racial Minorities	3



**CHICAN@ AND LATIN@ STUDIES**

Code	Title	Credits
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/ POLI SCI 302	Mexican-American Politics	3-4
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	3
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3

**ECONOMICS**

Code	Title	Credits
ECON/FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
ECON 364	Survey of International Economics	3-4
ECON 390	Contemporary Economic Issues	3
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON 448	Human Resources and Economic Growth	3-4
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 467	International Industrial Organizations	3-4
ECON/A A E 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 508	Wealth and Income	3
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3

ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy	3
ECON/SOC 663	Population and Society	3

**GENDER AND WOMEN'S STUDIES**

Code	Title	Credits
GEN&WS/C&E SOC/ SOC 215	Gender and Work in Rural America	3
GEN&WS/CHICLA/ HISTORY 245	Chicana and Latina History	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women in History	3-4
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 547	Theorizing Intersectionality	3

GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3
GEN&WS/SOC 611	Gender, Science and Technology	3

## POLITICAL SCIENCE

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI 207	Introduction to Afro-American Politics	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4
POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411 & POLI SCI 412	The American Constitution : Powers and Structures of Government and The American Constitution: Rights and Civil Liberties	8
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4

POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 507	Health Policy and Health Politics	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 654	Politics of Revolution	3-4

## PSYCHOLOGY

Code	Title	Credits
PSYCH 311	Issues in Psychology	1-4
PSYCH/SOC 350	Human Sexuality	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH 408	Psychology of Human Emotions	3
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 460	Developmental Psychology	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 488	Honors Psychology of Human Emotions	3
PSYCH 501	Depth Topic (when topic is appropriate)	4
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 507	Psychology of Personality	3
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 511	Behavior Pathology: Neuroses	3
PSYCH 512	Behavior Pathology-Psychoses	3
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 528	Introduction to Cultural Psychology	3
PSYCH 581	Honors Depth Topic (when the topic is appropriate)	4
PSYCH 582	Honors Cognitive Development	4
PSYCH 583	Honors Social Development	4
PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 607	Introduction to Clinical Psychology	3

## SOCIOLOGY

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3

SOC/C&E SOC/ GEN&WS 215	Gender and Work in Rural America	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC 250	Organizations and Society	3-4
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC/PSYCH 456	Introductory Social Psychology	3-4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 496	Topics in Sociology	1-3
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC/ED POL 648	Sociology of Education	3

SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/ECON 663	Population and Society	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

## HUMAN BEHAVIOR & THE SOCIAL ENVIRONMENT

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 457	Human Behavior and the Environment (junior year, spring semester)	3
SOC WORK 640	Social Work with Ethnic and Racial Groups (junior year, fall semester) <sup>2</sup>	3

## ELECTIVES IN SOCIAL WELFARE

Complete two intermediate- or advanced-level Social Work ([http://guide.wisc.edu/courses/soc\\_work](http://guide.wisc.edu/courses/soc_work)) courses<sup>3</sup>.

## STATISTICS AND RESEARCH

Code	Title	Credits
<b>Statistics</b>		
<i>Select one of the following statistics courses:</i>		
STAT 301	Introduction to Statistical Methods <sup>4</sup>	3
STAT 371	Introductory Applied Statistics for the Life Sciences <sup>5</sup>	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
PSYCH 210	Basic Statistics for Psychology	3
<b>Research</b>		
<i>Select one of the following research courses:</i>		
SOC WORK 650	Methods of Social Work Research	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
PSYCH 225	Research Methods	4

<sup>1</sup> Courses must be selected from these approved lists.

<sup>2</sup> Meets L&S ethnic studies requirement.

<sup>3</sup> No more than 3 credits of SOC WORK 699 Directed Study may be used toward fulfillment of this requirement.

<sup>4</sup> STAT 301 is recommended by the School of Social Work. This course also fulfills 3 credits of quantitative reasoning B(r), math *and* natural science (N) toward the Letters and Science breadth requirements.

<sup>5</sup> STAT 371 Introductory Applied Statistics for the Life Sciences fulfills 3 credits quantitative reasoning B(r) *and* natural science (N) toward L&S breadth requirements.

**Social welfare majors are encouraged to gain social service experience through volunteer work.** See the social work advisors or contact the Morgridge Center for Public Service (<http://www.morgridge.wisc.edu>), 263-2432, for information on volunteering.

## HONORS IN THE MAJOR

Students may apply for admission to Honors in the Social Welfare Major in consultation with the Social Welfare undergraduate advisor before beginning the Senior Honors Thesis. Students must make arrangements with a faculty member to sponsor their research project before admission will be granted.

## HONORS IN THE SOCIAL WELFARE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Social Welfare students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all SOC WORK courses, and all courses accepted in the major
- Complete SOC WORK 650 Methods of Social Work Research
- Complete one SOC WORK elective related to Senior Honors Thesis research topic
- Complete SOC WORK 579 Special Topics in Social Work concurrently with SOC WORK 681 Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in SOC WORK 681 Senior Honors Thesis and SOC WORK 682 Senior Honors Thesis, for a total of 6 credits
- Present thesis results at a department colloquium.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

At the conclusion of the Major, we expect that students in social welfare will be able to:

1. Identify foundational aspects of the US social welfare system and the history of the social work profession.

2. Recognize human differences and how social welfare systems interact with these differences to shape opportunities and outcomes for individuals, groups, and communities.
3. Demonstrate an ability to critically evaluate research with respect to its relevance, quality, and utility for addressing social welfare issues.
4. Synthesize and communicate knowledge relevant to social welfare issues.
5. Practice self-awareness of one's values, beliefs, and biases regarding the causes and consequences of social welfare issues.
6. Connect awareness of self, systems and social welfare knowledge to promote human dignity and justice.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; career opportunities; complete the major declaration; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/appointments>) or by calling 608-263-3660. Social work faculty members are available for advice about coursework, research, and the social work profession in general.

### PEOPLE

Professors: Lawrence M. Berger, MSW, Ph.D.; Aaron Brower, MSW, Ph.D.; Maria Cancian Ph.D.; Jan Steven Greenberg, MSSW, Ph.D.; Betty J. Kramer, MSSW, Ph.D.; Katherine Magnuson, Ph.D.; Marsha Mailick, Ph.D.; Daniel R. Meyer, MSW, Ph.D.; Stephanie A. Robert, MSW, Ph.D.; Kristen Shook Slack, A.M., Ph.D.

Associate Professors: Marah A. Curtis, MSW, Ph.D.; Tally Moses, MSW, Ph.D.; Tracy Schroepfer, MSW, Ph.D.

Assistant Professors: Lauren Bishop-Fitzpatrick, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tova Walsh, MSW, Ph.D.; Yang Sao Xiong, Ph.D.

Clinical Associate Professor: Ellen Smith, MSSW

Clinical Assistant Professors: Audrey Conn, MSSW, APSW; Amanda Ngola, MSW, LCSW; Angela Willits, MSW, LCSW

## SOCIAL WELFARE, B.S.

The School of Social Work offers two undergraduate programs: the bachelor of arts (B.A.) or bachelor of science (B.S.) degree with a major in social welfare; and the bachelor of social work (BSW) degree. Those who are interested in the professional social work degree (BSW) begin by declaring the social welfare major, applying to the BSW program in their junior year and, if accepted, changing their major to the BSW for their senior year.

## HOW TO GET IN

Regardless of program of interest, students begin their course of study by taking SOC WORK 205 Introduction to the Field of Social Work and SOC WORK 206 Introduction to Social Policy in either the freshman or sophomore year. Students can declare the social welfare major as early as the freshman year as long as they are enrolled in SOC WORK 205 and/or SOC WORK 206 and meet the L&S requirement of a minimum cumulative GPA of 2.0. More typically, students declare the major in the sophomore year while in or having completed SOC WORK 205 and/or SOC WORK 206. To declare the major, students should make an appointment and meet with one of the two social work academic advisors at the School of Social Work.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR SOCIAL WELFARE POLICY AND SERVICES

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

### SOCIAL SCIENCE CONCENTRATION

Select two intermediate- or advanced-level courses (I or A) from one of the following social science departments.<sup>1</sup>

*Note:* Completion of an elementary-level course may be a prerequisite to being able to take an I or A course.

#### AFRO-AMERICAN STUDIES

Code	Title	Credits
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4

AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 333	Black Feminisms	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ED POL 567	History of African American Education	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3
AFROAMER 673	Selected Topics in Afro-American Society	3

### AMERICAN INDIAN STUDIES

Code	Title	Credits
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ ANTHRO 353	Indians of the Western Great Lakes	3
AMER IND/LSC 444	Native American Environmental Issues and the Media	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/ HISTORY 490	American Indian History	3-4
AMER IND/ HDFS 522	American Indian Families	3
AMER IND/C&E SOC/ SOC 578	Poverty and Place	3

### ANTHROPOLOGY

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 330	Topics in Ethnology	3-4
ANTHRO/ RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/ AMER IND 353	Indians of the Western Great Lakes	3
ANTHRO 365	Medical Anthropology	3
ANTHRO/ GEN&WS 443	Anthropology by Women	3
ANTHRO 448	Anthropology of Law	3

ANTHRO 477	Anthropology, Environment, and Development	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ ED POL 570	Anthropology and Education	3

### ASIAN AMERICAN STUDIES

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM/HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN AM/ E A STDS/ HISTORY 276	Chinese Migrations since 1500	3-4
ASIAN AM/ AFROAMER 443	Mutual Perceptions of Racial Minorities	3

### CHICAN@ AND LATIN@ STUDIES

Code	Title	Credits
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/ POLI SCI 302	Mexican-American Politics	3-4
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	3
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3

### ECONOMICS

Code	Title	Credits
ECON/FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
ECON 364	Survey of International Economics	3-4
ECON 390	Contemporary Economic Issues	3

ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON 448	Human Resources and Economic Growth	3-4
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 467	International Industrial Organizations	3-4
ECON/A A E 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 508	Wealth and Income	3
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy	3
ECON/SOC 663	Population and Society	3

## GENDER AND WOMEN'S STUDIES

Code	Title	Credits
GEN&WS/C&E SOC/ SOC 215	Gender and Work in Rural America	3
GEN&WS/CHICLA/ HISTORY 245	Chicana and Latina History	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women in History	3-4
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 424	Women's International Human Rights	3

GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3
GEN&WS/SOC 611	Gender, Science and Technology	3

## POLITICAL SCIENCE

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI 207	Introduction to Afro-American Politics	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4

POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411 & POLI SCI 412	The American Constitution : Powers and Structures of Government and The American Constitution: Rights and Civil Liberties	8
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/CHICLA/HISTORY 422	Latino History and Politics	3
POLI SCI/GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/INTL ST 431	Contentious Politics	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 507	Health Policy and Health Politics	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 654	Politics of Revolution	3-4

## PSYCHOLOGY

Code	Title	Credits
PSYCH 311	Issues in Psychology	1-4
PSYCH/SOC 350	Human Sexuality	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH 408	Psychology of Human Emotions	3
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 460	Developmental Psychology	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 488	Honors Psychology of Human Emotions	3
PSYCH 501	Depth Topic (when topic is appropriate)	4
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 507	Psychology of Personality	3
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 511	Behavior Pathology: Neuroses	3
PSYCH 512	Behavior Pathology-Psychoses	3
PSYCH/GEN&WS 522	Psychology of Women and Gender	3

PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 528	Introduction to Cultural Psychology	3
PSYCH 581	Honors Depth Topic (when the topic is appropriate)	4
PSYCH 582	Honors Cognitive Development	4
PSYCH 583	Honors Social Development	4
PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 607	Introduction to Clinical Psychology	3

## SOCIOLOGY

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC/C&E SOC/GEN&WS 215	Gender and Work in Rural America	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC 250	Organizations and Society	3-4
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC/POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC/PSYCH 456	Introductory Social Psychology	3-4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 496	Topics in Sociology	1-3
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC/C&E SOC/ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3
SOC/GEN&WS 611	Gender, Science and Technology	3



SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/ECON 663	Population and Society	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

## HUMAN BEHAVIOR & THE SOCIAL ENVIRONMENT

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 457	Human Behavior and the Environment (junior year, spring semester)	3
SOC WORK 640	Social Work with Ethnic and Racial Groups (junior year, fall semester) <sup>2</sup>	3

## ELECTIVES IN SOCIAL WELFARE

Complete two intermediate- or advanced-level Social Work ([http://guide.wisc.edu/courses/soc\\_work](http://guide.wisc.edu/courses/soc_work)) courses<sup>3</sup>.

## STATISTICS AND RESEARCH

Code	Title	Credits
<b>Statistics</b>		
<i>Select one of the following statistics courses:</i>		
STAT 301	Introduction to Statistical Methods <sup>4</sup>	3
STAT 371	Introductory Applied Statistics for the Life Sciences <sup>5</sup>	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
PSYCH 210	Basic Statistics for Psychology	3
<b>Research</b>		
<i>Select one of the following research courses:</i>		
SOC WORK 650	Methods of Social Work Research	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4

PSYCH 225	Research Methods	4
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- Courses must be selected from these approved lists.
- Meets L&S ethnic studies requirement.
- No more than 3 credits of SOC WORK 699 Directed Study may be used toward fulfillment of this requirement.
- STAT 301 is recommended by the School of Social Work. This course also fulfills 3 credits of quantitative reasoning B(r), math *and* natural science (N) toward the Letters and Science breadth requirements.
- STAT 371 Introductory Applied Statistics for the Life Sciences fulfills 3 credits quantitative reasoning B(r) *and* natural science (N) toward L&S breadth requirements.

**Social welfare majors are encouraged to gain social service experience through volunteer work.** See the social work advisors or contact the Morgridge Center for Public Service (<http://www.morgridge.wisc.edu>), 263-2432, for information on volunteering.

## HONORS IN THE MAJOR

Students may apply for admission to Honors in the Social Welfare Major in consultation with the Social Welfare undergraduate advisor before beginning the Senior Honors Thesis. Students must make arrangements with a faculty member to sponsor their research project before admission will be granted.

## HONORS IN THE SOCIAL WELFARE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Social Welfare students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all SOC WORK courses, and all courses accepted in the major
- Complete SOC WORK 650 Methods of Social Work Research
- Complete one SOC WORK elective related to Senior Honors Thesis research topic
- Complete SOC WORK 579 Special Topics in Social Work concurrently with SOC WORK 681 Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in SOC WORK 681 Senior Honors Thesis and SOC WORK 682 Senior Honors Thesis, for a total of 6 credits
- Present thesis results at a department colloquium.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

At the conclusion of the Major, we expect that students in social welfare will be able to:

1. Identify foundational aspects of the US social welfare system and the history of the social work profession.
2. Recognize human differences and how social welfare systems interact with these differences to shape opportunities and outcomes for individuals, groups, and communities.
3. Demonstrate an ability to critically evaluate research with respect to its relevance, quality, and utility for addressing social welfare issues.
4. Synthesize and communicate knowledge relevant to social welfare issues.
5. Practice self-awareness of one's values, beliefs, and biases regarding the causes and consequences of social welfare issues.
6. Connect awareness of self, systems and social welfare knowledge to promote human dignity and justice.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; career opportunities; complete the major declaration; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/appointments>) or by calling 608-263-3660. Social work faculty members are available for advice about coursework, research, and the social work profession in general.

### PEOPLE

Professors: Lawrence M. Berger, MSW, Ph.D.; Aaron Brower, MSW, Ph.D.; Maria Cancian Ph.D.; Jan Steven Greenberg, MSSW, Ph.D.; Betty J. Kramer, MSSW, Ph.D.; Katherine Magnuson, Ph.D.; Marsha Mailick, Ph.D.; Daniel R. Meyer, MSW, Ph.D.; Stephanie A. Robert, MSW, Ph.D.; Kristen Shook Slack, A.M., Ph.D.

Associate Professors: Marah A. Curtis, MSW, Ph.D.; Tally Moses, MSW, Ph.D.; Tracy Schroeffer, MSW, Ph.D.

Assistant Professors: Lauren Bishop-Fitzpatrick, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tova Walsh, MSW, Ph.D.; Yang Sao Xiong, Ph.D.

Clinical Associate Professor: Ellen Smith, MSSW

Clinical Assistant Professors: Audrey Conn, MSSW, APSW; Amanda Ngola, MSW, LCSW; Angela Willits, MSW, LCSW

## SOCIAL WORK, BSW

Social work's special contribution rests on an established body of knowledge, values and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities.

Undergraduates in the School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts.

Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers such areas as aging, family and child welfare, poverty, mental health, developmental disabilities, alcohol and drug abuse, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

### MISSION

The mission of the UW–Madison School of Social Work is to enhance human well-being and promote human rights and social and economic justice for people who are disadvantaged to achieve an equitable, healthy, and productive society. The school aims to:

- Create, advance, strengthen, and integrate interdisciplinary knowledge for students and the profession through research, scholarship, teaching and practice.
- Educate students to become highly skilled, culturally competent and ethical practitioners who will provide effective leadership for the profession of social work within the State of Wisconsin, nationally, and internationally.
- Promote change at levels ranging from the individual to national and international policy, including empowering communities and populations that are disadvantaged and developing humane service delivery systems.
- Create and disseminate knowledge regarding the prevention and amelioration of social problems.

### UNDERGRADUATE DEGREE PROGRAMS

The School of Social Work offers a **bachelor of social work (BSW)** degree or a **bachelor of arts (B.A.)** or **bachelor of science (B.S.)** degree with a major in social welfare. The BSW and the social welfare major prepare students for further academic study or for employment in selected human service arenas. The BSW prepares students as beginning-level professional social workers. The social welfare major offers an overview of current social problems.

### HONORS IN THE MAJOR

Honors in the Major for social welfare majors and bachelor of social work students prepare undergraduates for research and scholarship in social work. Students interested in completing the requirements for Honors in the Major should consult with and apply for admission to the program with the social work academic advisor. Majors declare their intention to enter the program no later than the end of the spring semester of the junior year. Students must make arrangements with a faculty member

to sponsor their research project before being admitted to the honors program.

Requirements for Honors in the Major include the following:

1. a signed agreement between the student and the faculty research advisor sponsoring the Senior Honors Research Thesis;
2. completion of the majors' statistics requirement;
3. completion of SOC WORK 650 Methods of Social Work Research;
4. completion of one social work elective related to honors thesis research topic;
5. completion of the Senior Honors Research Thesis (SOC WORK 681 Senior Honors Thesis and SOC WORK 682 Senior Honors Thesis);
6. completion of SOC WORK 579 Special Topics in Social Work: Faculty Research Seminar in the fall semester of the senior year;
7. and, presentation of the thesis results at a department colloquium.

Honors in the Major students are expected to maintain at least a minimum cumulative GPA of 3.4 and complete the regular major requirements and an overall GPA of at least 3.3 in all courses taken at UW–Madison. Students are encouraged to apply to the Honors in the Major as early as possible, but no later than the spring semester of their junior year.

## HONORS IN THE MAJOR PROCEDURES

- Meet with an academic advisor to discuss Honors in the Major requirements.
- Determine faculty research advisor (no later than end of the spring semester of junior year). The faculty research advisor for the senior honors thesis should be consulted about the project as early as possible to formulate a topic.
- Declare entry into Honors in the Major (no later than the end of the spring semester of junior year).
- Submit signed Faculty Advisor Agreement form to the academic advisor.

## HONORS IN THE MAJOR COURSE REQUIREMENTS

Code	Title	Credits
<b>By the end of the Junior Year complete:</b>		
<i>Statistics</i>		
STAT 301 or STAT 371	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences	3
SOC/C&E SOC 360	Statistics for Sociologists I	4
PSYCH 210 or PSYCH 280	Basic Statistics for Psychology Honors Basic Statistics for Psychology	3
<i>Social Work</i>		
SOC WORK 650	Methods of Social Work Research	3
Soc Work Elective (related to thesis topic)		
<b>Fall Semester of Senior Year</b>		
SOC WORK 579	Special Topics in Social Work	1
SOC WORK 681	Senior Honors Thesis	3
<b>Spring Semester of Senior Year</b>		
SOC WORK 682	Senior Honors Thesis	3
Thesis Presentation		

## INDEPENDENT WORK

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website. Consent of instructor is required for the following course offerings in independent work:

Code	Title	Credits
SOC WORK 681 & SOC WORK 682	Senior Honors Thesis and Senior Honors Thesis (year-long course)	6
SOC WORK 691 & SOC WORK 692	Senior Thesis and Senior Thesis (year-long course)	4
SOC WORK 699	Directed Study	1-3

## 15 CREDIT RULE

All students are required to fulfill the L&S requirement of **15 credits of upper-level work in the major** taken in residence. Courses that count toward this requirement for Social Work and Social Welfare are:

Code	Title	Credits
SOC WORK 650	Methods of Social Work Research	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
PSYCH 225	Research Methods	4
SOC WORK 457	Human Behavior and the Environment	3
SOC WORK 640	Social Work with Ethnic and Racial Groups	3
SOC WORK 441	Generalist Practice with Individuals, Families and Groups	1-3
SOC WORK 442	Generalist Practice with Communities and Organizations	1-2
SOC WORK 612	Psychopathology for Generalist Social Work Practice	3

Social work electives designated as I or A.

## CERTIFICATE PROGRAMS

BSW students and social welfare majors often choose the following certificate programs: American Indian studies, business, criminal justice, gender and women's studies, gerontology, global cultures, global health, LGBT studies, and religious studies.

## ACCREDITATION

The BSW program is accredited by the Council on Social Work Education (CSWE). The social welfare major is accredited along with the rest of the College of Letters and Science by the Higher Learning Commission.

## GRADUATE SCHOOL

BSW students completing professional foundation courses with a grade of B or better are eligible for advanced standing in the master's program. For more information see the School of Social Work website FAQs on "Admissions: Advanced Standing & Exemptions (<https://socwork.wisc.edu/fulltimemsw-faq>)."

## HOW TO GET IN

Students enter the School of Social Work for either Social Welfare or Social Work begin by declaring the social welfare major. Later, if a student applies to and is accepted into the bachelor of social work program (see admissions requirements below) the major is changed to social work.

In either their freshman or sophomore years, students begin their program of study by taking SOC WORK 205 Introduction to the Field of Social Work and SOC WORK 206 Introduction to Social Policy in fall and spring semesters. When they are enrolled in or have taken SOC WORK 205 and/or SOC WORK 206, students declare the social welfare major. In the spring of the junior year, students apply for admission to the BSW program for their senior year.

## ADMISSION TO THE BSW PROGRAM

In the spring of the junior year, students who meet the following eligibility criteria apply for admission to the BSW program:

- SOC WORK 205 Introduction to the Field of Social Work and SOC WORK 206 Introduction to Social Policy completed;
- Statistics completed (or concurrent enrollment);
- Second-semester junior status (minimum of 71 credits completed); and
- Minimum of 2.5 overall GPA from all colleges attended.

Admission to the bachelor of social work (BSW) program is based on assessment of the applicant's background, preparation and experience for practice in the field of social work. Approximately 30–35 students are admitted to the bachelor of social work program each year. Application for admission includes:

- A personal statement on reasons for undergraduate studies in social work including any life experiences that have led the student to pursue a social work degree;
- A summary describing social work or social work-related paid or volunteer experiences, research or community projects, multicultural experiences, and/or work abroad;
- A letter of recommendation; and
- An official transcript (s) from each college attended.

After acceptance, the student completes the Social Work Practice course sequence (fall and spring semesters).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SOCIAL WORK (BSW)

Because the School of Social Work is a professional school within the College of Letters & Science (L&S), the college confers the BSW degree. As part of the BSW degree, students also complete the standard requirements of either the bachelor of arts (B.A.) or bachelor of science (B.S.).

#### COMPLETE EITHER THE BACHELOR OF ARTS OR BACHELOR OF SCIENCE REQUIREMENTS: BACHELOR OF ARTS REQUIREMENTS

**Mathematics:** Fulfilled with completion of University General Education requirements Quantitative Reasoning a and Quantitative Reasoning b coursework.

**Foreign Language:** Complete the fourth unit of a foreign language; or complete the third unit of a foreign language and the second unit of an additional foreign language. (A unit is one year of high school work or one semester/term of college work.)

**L&S Breadth:**

**Humanities:** 12 credits;

- must include 6 credits in literature

**Social Sciences:** 12 credits

**Natural Sciences:** 12 credits:

- must include **one** 3+ credit course in the biological sciences
- must include **one** 3+ credit course in the physical sciences

**Liberal Arts and Science coursework:** 108 credits

**Depth of Intermediate/Advanced work:** 60 intermediate or advanced credits

**Major:** Declare and complete at least one (1) major

**Total Credits:** 120 credits

**UW–Madison Experience:**

30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs:**

2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced liberal arts and science coursework at UW–Madison

**BACHELOR OF SCIENCE REQUIREMENTS**

**Mathematics:** Two (2) 3+ credits of intermediate/advanced-level MATH (<http://guide.wisc.edu/courses/math>), COMP SCI ([http://guide.wisc.edu/courses/comp\\_sci](http://guide.wisc.edu/courses/comp_sci)), STAT (<http://guide.wisc.edu/courses/stat>)

Limit one each: COMP SCI, STAT

**Foreign Language:** Complete the third unit of a foreign language. (A unit is one year of high school work or one semester/term of college work.)

**L&S Breadth:**

**Humanities:** 12 credits;

- must include 6 credits in literature

**Social Sciences:** 12 credits

**Natural Sciences:** 12 credits:

must include 6 credits in biological science

must include 6 credits in physical science

**Liberal Arts and Science Coursework:** 108 credits

**Depth of Intermediate/Advanced Work:** 60 intermediate or advanced credits

**Major:** Declare and complete at least one (1) major

**Total Credits:** 120 credits

**UW–Madison Experience:**

30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs:**

2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced liberal arts and science coursework at UW–Madison

**REQUIREMENTS FOR THE MAJOR:****SOCIAL WELFARE POLICY AND SERVICES**

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

**SOCIAL SCIENCE CONCENTRATION**

Select two intermediate- or advanced-level courses (I or A) from one of the following social science departments:

**AFRO-AMERICAN STUDIES**

Code	Title	Credits
AFROAMER 302	Undergraduate Studies in Afro-American History (when topic is appropriate)	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/GEN&WS 333	Black Feminisms	3
AFROAMER/HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/HIST SCI/MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ED POL 567	History of African American Education	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History (when topic is appropriate)	3
AFROAMER 673	Selected Topics in Afro-American Society (when topic is appropriate)	3

**AMERICAN INDIAN STUDIES**

Code	Title	Credits
AMER IND/ANTHRO 314	Indians of North America	3
AMER IND/ANTHRO 353	Indians of the Western Great Lakes	3
AMER IND/LSC 444	Native American Environmental Issues and the Media	3
AMER IND 450	Issues in American Indian Studies (when topic is appropriate)	3
AMER IND/HISTORY 490	American Indian History	3-4
AMER IND/HDFS 522	American Indian Families	3
AMER IND/SOC 578	Poverty and Place	3

**ANTHROPOLOGY**

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 330	Topics in Ethnology (when topic is appropriate)	3-4
ANTHRO/RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 350	Political Anthropology	3-4

ANTHRO/AMER IND 353	Indians of the Western Great Lakes	3	ECON/A A E/ENVIR ST 343	Environmental Economics	3-4
ANTHRO 365	Medical Anthropology	3	ECON 364	Survey of International Economics	3-4
ANTHRO/GEN&WS 443	Anthropology by Women	3	ECON 390	Contemporary Economic Issues (when topic is appropriate)	3
ANTHRO 448	Anthropology of Law	3	ECON/URB R PL 420	Urban and Regional Economics	3
ANTHRO 477	Anthropology, Environment, and Development	3	ECON 441	Analytical Public Finance	3-4
ANTHRO 545	Psychological Anthropology	3	ECON 448	Human Resources and Economic Growth	3-4
ANTHRO/ED POL 570	Anthropology and Education	3	ECON/POLI SCI 449	Government and Natural Resources	3-4

### ASIAN AMERICAN STUDIES

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies (when topic is appropriate)	3
ASIAN AM/HISTORY 276	Chinese Migrations since 1500	3-4
ASIAN AM/AFROAMER 443	Mutual Perceptions of Racial Minorities	3

### CHICAN@ AND LATIN@ STUDIES

Code	Title	Credits
CHICLA/POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA/GEN&WS/HISTORY 245	Chicana and Latina History	3
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/POLI SCI 302	Mexican-American Politics	3-4
CHICLA 330	Topics in Chicano/a Studies (when topic is appropriate)	3-4
CHICLA/GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/POLI SCI 422	Latino History and Politics	3
CHICLA/HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3

### ECONOMICS

Code	Title	Credits
ECON/FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/A A E/REAL EST/URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3

ECON/A A E/ENVIR ST 343	Environmental Economics	3-4
ECON 364	Survey of International Economics	3-4
ECON 390	Contemporary Economic Issues (when topic is appropriate)	3
ECON/URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON 448	Human Resources and Economic Growth	3-4
ECON/POLI SCI 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 467	International Industrial Organizations	3-4
ECON/A A E/ECON 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 508	Wealth and Income	3
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3
ECON/A A E/F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/URB R PL 641	Housing Economics and Policy	3
ECON/SOC 663	Population and Society	3

### GENDER AND WOMEN'S STUDIES

Code	Title	Credits
GEN&WS/SOC 215	Gender and Work in Rural America	3
GEN&WS/CHICLA/HISTORY 245	Chicana and Latina History	3
GEN&WS 320	Special Topics in Gender, Women and Society (when topic is appropriate)	1-3
GEN&WS/AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences) (when topic is appropriate)	3
GEN&WS/CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality (when topic is appropriate)	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS/HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/HISTORY 392	Women in History	3-4

GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 426	Women and Grassroots Politics Across the Globe	3
GEN&WS 427	Global Feminisms	3
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ANTHRO 443	Anthropology by Women	3
GEN&WS/SOC 477	Feminism and Sociological Theory	3
GEN&WS/HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/PSYCH 522	Psychology of Women and Gender	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/C&E SOC/ SOC 601	Sociology of Work, Family, and Gender	3
GEN&WS/SOC 611	Gender, Science and Technology	3

## POLITICAL SCIENCE

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI 207	Introduction to Afro-American Politics	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 405	State Government and Public Policy	3-4

POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4
POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411 & POLI SCI 412	The American Constitution : Powers and Structures of Government and The American Constitution: Rights and Civil Liberties	8
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 507	Health Policy and Health Politics	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 654	Politics of Revolution	3-4

## PSYCHOLOGY

Code	Title	Credits
PSYCH 311	Issues in Psychology	1-4
PSYCH/SOC 350	Human Sexuality	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH 408	Psychology of Human Emotions	3
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 460	Developmental Psychology	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 488	Honors Psychology of Human Emotions	3
PSYCH 501	Depth Topic (when topic is appropriate)	4
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 507	Psychology of Personality	3
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 511	Behavior Pathology: Neuroses	3
PSYCH 512	Behavior Pathology-Psychoses	3

PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 528	Introduction to Cultural Psychology	3
PSYCH 581	Honors Depth Topic (when the topic is appropriate)	4
PSYCH 582	Honors Cognitive Development	4
PSYCH 583	Honors Social Development	4
PSYCH 586	Honors seminar: The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 607	Introduction to Clinical Psychology	3

## SOCIOLOGY

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC/C&E SOC/ GEN&WS 215	Gender and Work in Rural America	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC 250	Organizations and Society	3-4
SOC/PSYCH 350	Human Sexuality	4
SOC/POP HLTH/C&E SOC 380	Contemporary Population Problems for Honors	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 496	Topics in Sociology (when topic is appropriate)	1-3
SOC/PSYCH 456	Introductory Social Psychology	3-4
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC/C&E SOC/ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/C&E SOC 578	Poverty and Place	3

SOC/GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology (when topic is appropriate)	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/LEGAL ST 641	Sociology of Law	3-4
SOC/URB R PL 645	Modern American Communities	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/ECON 663	Population and Society	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

## HUMAN BEHAVIOR & THE SOCIAL ENVIRONMENT

Code	Title	Credits
<i>Complete the following two courses:</i>		
SOC WORK 457	Human Behavior and the Environment	3
SOC WORK 640	Social Work with Ethnic and Racial Groups	3

## SOCIAL WORK PRACTICE SEQUENCE

BSW students take two semesters (16 hours per week—256 hours/semester) of field education during their senior year (SOC WORK 400 Field Practice and Integrative Seminar I fall semester, SOC WORK 401 Field Practice and Integrative Seminar II spring semester). SOC WORK 441 Generalist Practice with Individuals, Families and Groups, SOC WORK 442 Generalist Practice with Communities and Organizations and SOC WORK 612 Psychopathology in Generalist Social Work Practice are taken concurrently with Field.

A Field Forum is held in spring semester where students learn more about the field program, field units and expectations and opportunities for field placement. The forum provides students with the opportunity to meet the instructors who teach the field units. Following the Field Forum students indicate their field-unit preferences. The director of field education makes final unit placement decisions and field instructors make final agency-placement decisions.

The types of agencies working with the field education program are varied. Field units are organized around a social problem area or a field of



practice. Each unit has a range of field placement agencies and settings appropriate to its theme. The emphasis for undergraduate placements is on applying the knowledge and skills of generalist social work practice with systems of all sizes. The focus is on learning and applying analytic and interventive skills within an ethically based, problem-focused approach.

Social work students should be advised that the Wisconsin Caregiver Law requires a Wisconsin background check (Caregiver Check and Wisconsin Criminal History) for all potential field-education students prior to the field placement. More information regarding this process is available at Field Education (<http://www.socwork.wisc.edu/fielded>) on the social work website.

Senior			
Fall	Credits	Spring	Credits
SOC WORK 400 (A)	5	SOC WORK 401 (A)	5
SOC WORK 441 (I)	3	SOC WORK 442 (A)	2
		SOC WORK 612 (A)	2
	8		9

Total Credits 17

BSW students are expected to maintain a cumulative 3.0 in the major and a minimum grade of BC in SOC WORK 400 Field Practice and Integrative Seminar I and SOC WORK 401 Field Practice and Integrative Seminar II.

For more information about field units, the agencies they work with, and field course expectations see the Field Education Handbook (<http://www.socwork.wisc.edu/files/field/FieldHandbook.pdf>). Field unit availability may vary from year to year.

## SOCIAL WORK PRACTICE IN COMMUNITY AGENCIES

This unit provides opportunities to work with human service agencies and community programs. The practice perspective is generalist social work in direct and indirect services to individuals, families, groups, organizations, and communities. The primary purpose of the field placement and seminar is to provide generalist practice opportunities for the development, integration and application of key competencies that are met through measurable practice behaviors. Theory and concepts learned in the classroom are integrated with practice opportunities, fostering the implementation of evidenced-informed practice. Participating Agencies: Bridge Lake Point Waunona, Goodman, Vera Court neighborhood centers; Center for Families; Dane County Court Appointed Special Advocates [CASA]; Disability Rights-Wisconsin; Second Harvest Food Bank; UW Medical Foundation; Youth Services of Southern Wisconsin (Briarpatch); YWCA (Girls Inc., House-ability, Third Street programs), Community Care Resources, Center for Families.

## SOCIAL WORK PRACTICE IN COMMUNITY MENTAL HEALTH AGENCIES

This unit has been developed for generalist practice year students (BSW and first year MSW students) wanting to learn generalist social work practice in settings providing services to people with serious and persistent mental illness who are eighteen years of age and older. The placement settings include private non-profit mental health agencies, primarily providing comprehensive community support services. Participating Agencies: Most of the placements occur in programs of the Journey Mental Health Center's Community Support Programs (CSP's) including: Blacksmith House, Cornerstone, Gateway, Community Treatment Alternatives, Yahara House (day services program) and the

Emergency Services Unit. Additional placements occur at: SOAR Case Management Services, Chrysalis, Badger Prairie Health Care Center, Tellurian UCAN's Transitional Housing Program, William S. Middleton Memorial Veterans Hospital, and Mendota Mental Health Institute's PACT (Program of Assertive Community Treatment), an outpatient program.

## SOCIAL WORK PRACTICE IN COUNTY HUMAN SERVICES (DANE CO. OR RURAL SETTINGS)

This is a county (public) human/social service agency unit with practice including both direct and indirect services with clients, participants and communities. Students are involved in child welfare, child protective services, juvenile delinquency, foster care, institutional reintegration and community social work. Field placement activities include individual and family counseling, child and family assessment, case management, juvenile court services, foster care services, institutional reintegration, group work, neighborhood and community services and overall program planning. Students in this unit may have field placement settings in voluntary community agencies that work collaboratively with the county human services department. Students gain a solid understanding of the place of a county human service agency in the human services/child and family welfare system. Placements provide opportunities to learn, develop and demonstrate competencies through practice behaviors in all or most of the required social work competency areas. Field placements available through this unit are primarily located in Dane and surrounding counties. Depending on resource needs, this unit may include Title IV-E students. Participating Agencies: Division of Children, Youth and Families, Dane County Human Services, in the following specializations: Access and Initial assessment, Ongoing Services, Child Protective Services, Foster Care, Independent Living, Juvenile Delinquency, Institutional Reintegration, Neighborhood Intervention Program, and Joining Forces for Families (community social work). Placements may also be arranged in voluntary community agencies that have collaborative relationships with county human services.

## SOCIAL WORK PRACTICE IN INTELLECTUAL DISABILITIES

This unit has been developed for generalist practice year students who are interested in doing advocacy and promoting inclusive communities, especially with persons differing abilities. Since the objectives of the 400-level foundation year are primarily to teach and provide experiences in generalist social work practice, you will learn skills and knowledge applicable to a wide variety of social work settings. There is also the opportunity to work with two Madison based programs doing international projects. Through work with individuals, families, groups, and communities there will be a focus on issues related to human rights, access to services, communication challenges, and community acceptance and inclusion. The integrative seminar will utilize group work, faculty, student, and guest presentations, multimedia and experiential activities. Placement agencies include: Family Support and Resource Center, Waisman Center, Options in Community Living, Bridges Birth to Three programs.

## SOCIAL WORK PRACTICE IN JUVENILE AND CRIMINAL JUSTICE

The focus of this unit is direct social work practice in juvenile and adult criminal justice community and institutional settings. The unit focuses on helping students conceptualize client typologies related to social responses and interventions including: pre-sentence decisions, probation and parole supervision, institutional interventions, group homes, juvenile community treatment, policy and planning administration. Interventions related to conceptualization of client subtypes, demography of crime and

delinquency and violent crime are some of the major content areas for study. Participating Agencies: RC Correctional Services for Women, Attic Correctional Services, Dane County Deferred Prosecution, Dane County Family Violence Unit, Dane County Juvenile Detention and Court Services, Dane County Victim/Witness Unit, Domestic Violence Intervention Services, Operation Fresh Start, VA Hospital, Youth Services of Southern Wisconsin, Madison YWCA, Juvenile Group Homes for male and female delinquent youth, Mendota Mental Health Institute, Sand Ridge Secure Treatment Facility, U.S. Probation Office, Wisconsin Adult Correctional Institutions, Wisconsin Public Defender's Office.

## SOCIAL WORK PRACTICE WITH OLDER ADULTS

This field unit provides field placements in a variety of agency, community, health care and institutional settings that primarily serve older adults. All of the field placements deal with issues of aging, community, mental health, policy, and institutions. The primary purpose of the field placement is to provide an opportunity for guided practical experience in social work settings so that students may acquire the knowledge, values, and skills essential for professional gerontological social work practice. This field unit provides opportunities for integrating theoretical content and knowledge with the practice experience. The practice perspective of the aging and mental health unit is generalist practice, which includes a problem-focused generalist approach with a special emphasis on:

1. direct service to older adults and their families; and
2. resource development and coordination.

Participating Agencies: Agrace Hospice, Alzheimers Association; Attic Angel Place; Badger Prairie Health Care Center; Care Wisconsin; Catholic Charities; Dane County Human Services Guardianship & Protective Placement; East Madison Monona Coalition of the Aging; Fitchburg Senior Center; the Geriatric Research Education and Clinical Center (GRECC) at the Veterans Administration Hospital; Jewish Social Service; North Eastside Senior Coalition; Retired Senior Volunteer Program; South Madison Coalition; St. Mary's Adult Day Center; St. Mary's Care Center; Oak Park Retirement Community; UW Health Geriatrics Clinic.

## SOCIAL WORK PRACTICE IN PUBLIC AND PRIVATE CHILD WELFARE

This field unit is a public human/social service agency unit with practice including both direct and indirect services with clients. Students are involved in child welfare and child protective services, juvenile delinquency, foster care and community social work. Placement activities include child protective services initial assessment, family assessment, case planning, individual and family counseling, case management, juvenile court services, foster care services, neighborhood and community services and overall program planning. Students gain a solid understanding of the place of a public social service agency in the human services/child and child welfare system. Placements provide skills in case assessment and planning, case management, counseling, court services, group work and community resource networking. Participating Agencies: Field Placements locations for the field unit include: County Human Service/Social Service offices in Columbia, Dane, Green, Iowa, Jefferson, Rock and Sauk Counties and include the following specializations: Foster Care, Child Welfare, Child Protective Services, Access, Initial Assessments, and Ongoing Services.

## STATISTICS AND RESEARCH

Code	Title	Credits
<b>Statistics</b>		

<i>Select one of the following statistics courses:</i>		3
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STAT 301	Introduction to Statistical Methods (I) <sup>1</sup>
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STAT 371	Introductory Applied Statistics for the Life Sciences (r-N-I) <sup>2</sup>
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SOC/ C&E SOC 360	Statistics for Sociologists I (I)
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PSYCH 210	Basic Statistics for Psychology (E)
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### Research

<i>Select one of the following research courses:</i> <sup>3</sup>		3-4
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SOC WORK 650	Methods of Social Work Research (A)
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SOC/ C&E SOC 357	Methods of Sociological Inquiry (I)
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PSYCH 225	Research Methods (I)
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Total Credits	6-7
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<sup>1</sup> STAT 301 is recommended by the School of Social Work. This course also fulfills 3 credits of quantitative reasoning B(r), math *and* natural science (N) toward the Letters & Science breadth requirements.

<sup>2</sup> STAT 371 Introductory Applied Statistics for the Life Sciences fulfills 3 credits quantitative reasoning B(r) *and* natural science (N) toward L&S breadth requirements.

<sup>3</sup> SOC WORK 650 is recommended for BSW students. Double majors in sociology or psychology may take SOC/C&E SOC 357 or PSYCH 225 for this requirement.

## ELECTIVE

Complete one intermediate- or advanced-level Social Work ([http://guide.wisc.edu/courses/soc\\_work](http://guide.wisc.edu/courses/soc_work)) course.

## INDEPENDENT WORK

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website. Consent of instructor is required for the following course offerings in independent work:

Code	Title	Credits
SOC WORK 681	Senior Honors Thesis	3
SOC WORK 682	Senior Honors Thesis	3
SOC WORK 691	Senior Thesis	2
SOC WORK 692	Senior Thesis	2
SOC WORK 699	Directed Study	1-3

## 15 CREDIT RULE

All students are required to fulfill the L&S requirement of **15 credits of upper-level work in the major** taken in residence. Courses that count toward this requirement for social work and social welfare are:

Code	Title	Credits
SOC WORK 650	Methods of Social Work Research	3
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
PSYCH 225	Research Methods	4
SOC WORK 457	Human Behavior and the Environment	3

SOC WORK 640	Social Work with Ethnic and Racial Groups	3
SOC WORK 441	Generalist Practice with Individuals, Families and Groups	1-3
SOC WORK 442	Generalist Practice with Communities and Organizations	1-2
SOC WORK 612	Psychopathology for Generalist Social Work Practice	3

Those social work electives designated as I or A

## CERTIFICATE PROGRAMS

BSW students and social welfare majors often choose the following certificate programs: American Indian studies, business, criminal justice, gender and women's studies, gerontology, global cultures, global health, LGBT studies, and religious studies. More details about certificates are available in this Guide.

## ACCREDITATION

The BSW program is accredited by the Council on Social Work Education (CSWE). The social welfare major is accredited along with the rest of the College of Letters & Science by the Higher Learning Commission.

## GRADUATE SCHOOL

BSW students completing professional foundation courses with a grade of B or better are eligible for advanced standing in the master's program. For more information see the School of Social Work website FAQs at Admissions: Advanced Standing & Exemptions (<https://socwork.wisc.edu/fulltimemsw-faq>).

## HONORS IN THE MAJOR

Students may apply for admission to Honors in the Bachelor of Social Work in consultation with the Social Work undergraduate advisor before beginning the Senior Honors Thesis. Students must make arrangements with a faculty member to sponsor their research project before admission will be granted.

## HONORS IN THE BACHELOR OF SOCIAL WORK REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Social Welfare students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.400 GPA for all SOC WORK courses, and all courses accepted in the major
- Complete SOC WORK 650 Methods of Social Work Research
- Complete one SOC WORK elective related to Senior Honors Thesis research topic
- Complete SOC WORK 579 Special Topics in Social Work concurrently with SOC WORK 681 Senior Honors Thesis
- Complete a two-semester Senior Honors Thesis in SOC WORK 681 Senior Honors Thesis and SOC WORK 682 Senior Honors Thesis, for a total of 6 credits
- Present thesis results at a department colloquium.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

At the conclusion of the degree program, BSW students are expected to be able to:

1. Engage diversity and difference in practice.
2. Advance human rights and social, economic and environmental justice.
3. Engage in practice-informed research and research informed practice.
4. Engage in policy practice.
5. Engage with individuals, families, groups, organizations, and communities.
6. Assess individuals, families, groups, organizations, and communities.
7. Intervene with individuals, families, groups, organizations, and communities.
8. Evaluate practice with individuals, families, groups, organizations, and communities.
9. Demonstrate ethical and professional behavior.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; career opportunities; complete the major declaration; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/appointments>) or by calling 263-3660. Social work faculty members are available for advice about course work, research, and the social work profession in general.

## PEOPLE

Professors: Lawrence M. Berger, MSW, Ph.D.; Aaron Brower, MSW, Ph.D.; Maria Cancian Ph.D.; Jan Steven Greenberg, MSSW, Ph.D.; Betty J. Kramer, MSSW, Ph.D.; Katherine Magnuson, Ph.D.; Marsha Mailick, Ph.D.; Daniel R. Meyer, MSW, Ph.D.; Stephanie A. Robert, MSW, Ph.D.; Kristen Shook Slack, A.M., Ph.D.

Associate Professors: Marah A. Curtis, MSW, Ph.D.; Tally Moses, MSW, Ph.D.; Tracy Schroeffer, MSW, Ph.D.

Assistant Professors: Lauren Bishop-Fitzpatrick, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tova Walsh, MSW, Ph.D.; Yang Sao Xiong, Ph.D.

Clinical Associate Professor: Ellen Smith, MSSW

Clinical Assistant Professors: Audrey Conn, MSSW, APSW; Amanda Ngola, MSW, LCSW; Angela Willits, MSW, LCSW

## SOCIOLOGY

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office's resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students "Course Requisites Not Met" enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as "electives," numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW–Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science. These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special

honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC/C&E SOC 361 Statistics for Sociologists II, SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## PREREQUISITES, L&S BREADTH, AND COURSE LEVELS

Sociology course numbers over 300 indicate subject matter rather than level of difficulty. Unless indicated otherwise, prerequisites at the upper level are junior standing and an introductory course in sociology or consent of instructor.

Most courses in sociology count toward the social studies breadth requirement. Courses SOC/GEN&WS 200 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies, SOC/GEOG/HISTORY/LCA/POLI SCI 244 Introduction to Southeast Asia: Vietnam to the Philippines, SOC/GEOG/HISTORY/LCA/POLI SCI 252 The Civilizations of India-Modern Period, and SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 Africa: An Introductory Survey count toward breadth requirements in either humanities or social studies. The following do not count toward any breadth requirement:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3
SOC 496	Topics in Sociology	1-3
SOC/C&E SOC 693	Practicum in Analysis and Research	3
SOC/LEGAL ST 694	Criminal Justice Field Observation	2-3

## DEGREES/MAJORS/CERTIFICATES

- Integrated Studies in Science, Engineering, and Society, Certificate (p. 1077)
- Sociology, B.A. (p. 1079)
- Sociology, B.S. (p. 1086)

## PEOPLE

Professors Carlson, Emirbayer, Ermakoff, Ferree, Ford, Freeland, Fujimura, Gerber, Goldberg, Grodsky, Herd, Logan, Massoglia, Maynard, Montgomery, Oliver, Raymo, Rogers, Schaeffer, Schwartz, Seidman, Wright

Associate Professors Elwert, Fletcher, Grant, Lim, Nobles

Assistant Professors Conti, Engelman, Goffman

## INTEGRATED STUDIES IN SCIENCE, ENGINEERING, AND SOCIETY, CERTIFICATE

The certificate in Integrated Studies in Science, Engineering, and Society Undergraduate (ISSuES) offers undergraduate students an opportunity to explore the social sciences and humanities in a way that emphasizes the relationship between science, technology, medicine, engineering, and society. From energy to communications technologies to gene editing to automation, the interplay between researchers, developers, policy makers and the public is constantly shaping and reshaping our world. The ISSuES certificate allows undergraduate students to complement their majors with a set of courses aimed at helping them understand how society shapes science and how science shapes society.

Offered by the Holtz Center for Science & Technology Studies, ISSuES was designed to help STEM-field majors fulfill their liberal arts requirements, but is highly flexible and is available to all undergraduate students interested in exploring the complex interplay between science, technology, medicine, engineering, and society. For more information, see the program website (<http://sts.wisc.edu>).

### HOW TO GET IN

The certificate in integrated studies in science, engineering and society is offered to all undergraduate students. To be considered for admission to the certificate program, students must be in good academic standing. Students should begin the application process by the end of sophomore year, but no later than the end of their junior year.

The first step in applying to the program is to consult with the ISSuES certificate advisor. To make an appointment, please send an email to [sts@ssc.wisc.edu](mailto:sts@ssc.wisc.edu).

### REQUIREMENTS

#### 15 CREDITS, TO INCLUDE: <sup>1</sup>

Code	Title	Credits
STS 201	Where Science Meets Society	3
<b>9 credits from one focus area:</b>		<b>9</b>
<i>Ethics:</i>		
ED PSYCH 301	How People Learn	
ENVIR ST 112	Environmental Studies: The Social Perspective	
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies	
HIST SCI/ MED HIST 133	Biology and Society, 1950 - Today	
HIST SCI 201	The Origins of Scientific Thought	
HIST SCI 202	The Making of Modern Science	
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	
HIST SCI/ MED HIST 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	

HIST SCI 222	Technology and Social Change in History
HIST SCI/ AFROAMER/ MED HIST 275	Science, Medicine, and Race: A History
HIST SCI/ MED HIST/ RELIG ST 331	Science, Medicine and Religion
HIST SCI 337	History of Technology
HIST SCI 339	Technology and Its Critics Since World War II
HIST SCI/ HISTORY/ MED HIST 394	Science in America
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HIST SCI/ MED HIST 668	Topics in History of Medicine
HISTORY/ ENVIR ST/ GEOG 460	American Environmental History
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ PHILOS 515	Public Health Ethics
MED HIST 610	Regenerative Medicine Ethics and Society
MED HIST 699	Independent Study in Medical History
PHILOS 220	Philosophy and the Sciences
PHILOS 241	Introductory Ethics
PHILOS 243	Ethics in Business
PHILOS 341	Contemporary Moral Issues
PHILOS/ ENVIR ST 441	Environmental Ethics
PHILOS 541	Modern Ethical Theories
<i>Leadership:</i>	
A A E/ AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
GEOG/ ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography
HIST SCI/ S&A PHM 401	History of Pharmacy
LSC 100	Science and Storytelling
LSC 350	Visualizing Science and Technology
LSC 625	Risk Communication
M H R 300	Managing Organizations
POLI SCI 104	Introduction to American Politics and Government

POLI SCI 184	Introduction to American Politics
POLI SCI/ LEGAL ST 217	Law, Politics and Society
SOC/ C&E SOC 245	Technology and Society
SOC 250	Organizations and Society
SOC WORK 206	Introduction to Social Policy
<i>Design:</i>	
ART 102	Two-Dimensional Design
ART 104	Three-Dimensional Design
ART 107	Introduction to Digital Forms
ART 108	Foundations of Contemporary Art
ART 112	Drawing I
ART 212	Drawing Methods & Concepts
ART 328	The Computer in the Visual Arts
ART 334	Wood Working
ART 448	Special Topics
ART 534	Advanced Wood Working
ART HIST 202	History of Western Art II: From Renaissance to Contemporary
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST/ LCA 379	Cities of Asia
ART HIST/DS 464/ HISTORY 464	Dimensions of Material Culture
ART HIST 567	Proseminar in American Architecture
DS 120	Design: Fundamentals I
DS 210	Fashion Illustration
DS 220	Design: Fundamentals II
DS 221	Person and Environment Interactions
DS 360	Global Perspectives on Design and Culture
DS 420	Twentieth Century Design
DS 464/ART HIST/ HISTORY DS 464	Dimensions of Material Culture
DS 642	Taste
ENVIR ST/ GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography
HIST SCI 337	History of Technology
HIST SCI 339	Technology and Its Critics Since World War II
HIST SCI 350	Special Topics in the History of Science
JOURN 415	Science and Environmental Journalism
LAND ARC 250	Survey of Landscape Architecture Design

LSC 440	Contemporary Communication Technologies and Their Social Effects
M H R 300	Managing Organizations
PHILOS 241	Introductory Ethics
SOC/ C&E SOC 245	Technology and Society
<i>General:</i>	
AFROAMER 272	Race and American Politics from the New Deal to the New Right
ANTHRO 104	Cultural Anthropology and Human Diversity
ART 107	Introduction to Digital Forms
COM ARTS 200	Introduction to Digital Communication
COM ARTS 472	Rhetoric and Technology
CURRIC 277	Videogames & Learning
DS 120	Design: Fundamentals I
ENVIR ST 112	Environmental Studies: The Social Perspective
ENVIR ST/ GEOG 339	Environmental Conservation
HISTORY/ HIST SCI/ MED HIST 507	Health, Disease and Healing I
HIST SCI 201	The Origins of Scientific Thought
HIST SCI 202	The Making of Modern Science
HIST SCI 203	Science in the Twentieth Century: A Historical Overview
HIST SCI 222	Technology and Social Change in History
HIST SCI/ AFROAMER/ MED HIST 275	Science, Medicine, and Race: A History
HIST SCI 337	History of Technology
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ HIST SCI 509	The Development of Public Health in America
PHILOS 101	Introduction to Philosophy
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society
PSYCH/I SY E 349	Introduction to Human Factors
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
<b>Capstone—one from:</b> <sup>2</sup>	
ART 448	Special Topics
ART 534	Advanced Wood Working
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues

ART HIST/DS 464/	Dimensions of Material Culture
HISTORY 464	
ART HIST 567	Proseminar in American Architecture
DS 642	Taste
GEOG 342	Geography of Wisconsin
HIST SCI 337	History of Technology
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health
HIST SCI/ MED HIST 668	Topics in History of Medicine
LSC 625	Risk Communication
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ HIST SCI 509	The Development of Public Health in America
MED HIST 699	Independent Study in Medical History
M&ENVTOX/ ENVIR ST/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation
PHILOS 341	Contemporary Moral Issues
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society
PSYCH/ I SY E 349	Introduction to Human Factors
STS 699	Directed Study

Total Credits 15

<sup>1</sup> Courses taken with the pass/fail grade option do not apply to the certificate.

<sup>2</sup> Courses used for the Focus area cannot also count for Capstone.

## RESIDENCE & QUALITY OF WORK

2.000 GPA on all certificate-approved courses

8 credits in the certificate, in residence

## LEARNING OUTCOMES

The **Integrated Studies in Science, Engineering, and Society Undergraduate Certificate Program (ISSuES)** offers undergraduate students an opportunity to interact with the social sciences and humanities in a way that emphasizes the relationship between science, technology, engineering, medicine and society.

Students in the certificate will:

- 1) Be exposed to the social sciences and humanities and see their relevance to scientific and technological enterprises;
- 2) Develop the capacity for interdisciplinary, critical thinking about the relationship between science, technology, engineering, medicine and society;
- 3) Develop a sense of personal and social responsibility for their engineering, scientific or other professional practice;
- 4) Strengthen written communication skills.

## ADVISING AND CAREERS

### ADVISING

To obtain advising assistance, students should consult with the ISSuES certificate advisor. To make an appointment, send an email to [sts@ssc.wisc.edu](mailto:sts@ssc.wisc.edu).

All UW–Madison undergraduates are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs, and the ISSuES certificate provides students with a way to integrate their liberal studies with the skills they are developing in their majors. It is important to us that our students are career ready at the time of graduation, and we are committed to your success. Students who have completed the certificate say that it helped them enhance the portfolio of skills they offered to employers and graduate programs by giving them foundations for understanding and communicating effectively about the ethical, policy, design and other non-technical aspects of science, engineering and medicine.

### CAREER RESOURCES

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## SOCIOLOGY, B.A.

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office's resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students "Course Requisites Not Met" enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as "electives," numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW–Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science. These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC/C&E SOC 361 Statistics for Sociologists II, SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## PREREQUISITES, L&S BREADTH, AND COURSE LEVELS

Sociology course numbers over 300 indicate subject matter rather than level of difficulty. Unless indicated otherwise, prerequisites at the upper level are junior standing and an introductory course in sociology or consent of instructor.

Most courses in sociology count toward the social studies breadth requirement. Courses SOC/GEN&WS 200 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies, SOC/GEOG/HISTORY/LCA/POLI SCI 244 Introduction to Southeast Asia: Vietnam to the Philippines, SOC/GEOG/HISTORY/LCA/POLI SCI 252 The Civilizations of India-Modern Period, and SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 Africa: An Introductory Survey count toward breadth requirements in either humanities or social studies. The following do not count toward any breadth requirement:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3
SOC 496	Topics in Sociology	1-3
SOC/C&E SOC 693	Practicum in Analysis and Research	3
SOC/LEGAL ST 694	Criminal Justice Field Observation	2-3

## HOW TO GET IN

Sociology has no grade point minimum or prerequisite classes for declaring the major. However, students must have an in-person meeting with the undergraduate advisor for a review of the major requirements and assessment of the progress toward graduation. Sociology majors pursuing the Concentration in Analysis and Research are admitted after earning a 3.0 grade point average in SOC/C&E SOC 360 Statistics for Sociologists I and SOC/C&E SOC 357 Methods of Sociological Inquiry.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)



## BACHELOR OF ARTS DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE SOCIOLOGY MAJOR

A minimum of 30 credits in SOC courses is required for the basic major. A minimum of 36 credits in SOC courses is required for the elective Option—Concentration in Analysis and Research (CAR).

All students are required to take **four** foundation core courses (Introduction, Research Methods, Statistics I, and Classical Sociological Theory) **and four** additional upper-level distribution courses that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses.

Code	Title	Credits
<b>Foundation (Core) Courses</b>		
<i>Introduction to SOC (choose one)</i>		3-4
SOC/ C&E SOC 210	Survey of Sociology	
SOC/ C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	
<i>Research Methods</i> <sup>1</sup>		
SOC/C&E SOC 357	Methods of Sociological Inquiry (Research Methods)	3-4
<i>Statistics</i>		
SOC/C&E SOC 360	Statistics for Sociologists I	4
OR select one equivalent statistics course from another department: <sup>2</sup>		
GEN BUS 303	Business Statistics	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
PSYCH 210	Basic Statistics for Psychology	
PSYCH 280	Honors Basic Statistics for Psychology	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<i>Classical Theory:</i>		
SOC/C&E SOC 475	Classical Sociological Theory	3
<b>Distribution Courses</b>		
Select 4 courses from at least 2 different areas (see below)		
<b>Electives</b>		
Select additional SOC electives to bring total credits to 30		

<sup>1</sup> Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.

<sup>2</sup> Statistics courses taken outside of the Department of Sociology will not count for part of the 30-credit minimum in the major or for part of the 15-credit upper-level residence requirement. However, students may have good reason for substituting SOC/C&E SOC 360. For example, STAT 301 and STAT 371 satisfy part of the B.S. Math requirement—and/or count as Natural Science for the B.A. SOC/C&E SOC 360 does not.

### DISTRIBUTION AREAS

Select 4 courses from at least 2 of the seven areas below.

#### Additional Methods/Statistics

Code	Title	Credits
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3

SOC/C&E SOC 365	Data Management for Sociological Research	3-4
SOC 375	Introduction to Mathematical Sociology	3
SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Additional Theory

Code	Title	Credits
SOC 476	Contemporary Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 462	Study Abroad in Additional Theory <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Deviant Behavior

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/SOC WORK 422	Social Issues in Aging	3
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Social Psychology

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/PSYCH 456	Introductory Social Psychology	3-4
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC 464	Study Abroad in Social Psychology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Social Organization

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/C&E SOC/ GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 620	Comparative Racial Inequality	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC/LCA/ RELIG ST 634	Social Structure of India	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC 643	Sociology of Occupations and Professions	3
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 649	Sociology of Work and Employment	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3
SOC 465	Study Abroad in Social Organization <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

**Demography and Ecology**

Code	Title	Credits
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3
SOC 674	Demographic Techniques I	3
SOC 460	Study Abroad in Demography and Ecology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

**Community and Environmental Sociology**

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

**RESIDENCE AND QUALITY OF WORK**

2.000 GPA in all SOC courses and courses that count toward the major

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in SOC, taken on campus

<sup>1</sup>Sociology defines upper-level as courses 300–699 **except**:

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 497	Study Abroad in Sociology	1-6

**CONCENTRATION IN ANALYSIS AND RESEARCH ("CAR")  
WHAT IS "CAR"?**

The Concentration in Analysis and Research—an elective option within the undergraduate sociology major—is designed for students who do well and are interested in research methods and statistics. CAR prepares students for entry-level jobs in applied social research and/or for graduate study. Key features of the concentration include advanced statistics courses, training in social science computing, and research. By selecting appropriate electives and internships, students may focus their training on demography, survey research, marketing and communications, criminal justice, health care, education, social services, natural resources, organizations, or personnel and human resources.

**Requirements for the CAR Option**

Concentration in Analysis and Research (CAR)—Option noted on transcript.

Faculty director: Professor James Raymo, 2446 Social Science; 608-262-2783; jraymo@ssc.wisc.edu

To be admitted to the CAR program, students must have a minimum GPA of 3.000 (B) in Methods and Statistics. To complete the CAR program, students must complete the following 36 credits of SOC courses, meet the requirements and earn a minimum GPA of 3.000 in those courses unique to the CAR option.

All students are required to take four foundation core courses (Introduction, Research, Statistics, and Theory) and additional CAR Distribution courses in Statistics, Research, Computing, and Practicum that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses and the option has several sequenced courses, some of which are taught only once a year.

Code	Title	Credits
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**Foundation Courses**

*Introduction*  
Select one of the following: 3-4

SOC/ C&E SOC 210	Survey of Sociology	
SOC/ C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	

*Research Methods* <sup>1</sup>

SOC/ C&E SOC 357	Methods of Sociological Inquiry (Statistic for Sociologists I)	
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SOC/C&E SOC 360	Statistics for Sociologists I	4
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or

GEN BUS 303	Business Statistics (Statistics I)	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	

PSYCH 210	Basic Statistics for Psychology	
PSYCH 280	Honors Basic Statistics for Psychology	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<i>Statistics II</i> <sup>2</sup>		
SOC/C&E SOC 361	Statistics for Sociologists II	3
or		
ECON 410	Introductory Econometrics	4
POLI SCI 552	Multivariable Statistical Inference for Political Research	3-4
STAT 302	Accelerated Introduction to Statistical Methods	3
<i>Statistics III</i> <sup>2</sup>		
SOC 362	Statistics for Sociologists III	3
or		
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	3
<i>Theory</i>		
SOC/C&E SOC 475	Classical Sociological Theory	3
<b>"CAR" Distribution Courses</b>		
<i>Research Electives</i>		
Select 2 of the following:		
SOC 375	Introduction to Mathematical Sociology	
SOC 376	Mathematical Models of Social Systems	
SOC 535	Talk and Social Interaction	
SOC/ECON 663	Population and Society	
SOC 674	Demographic Techniques I	
SOC/C&E SOC 676	Applied Demography: Planning and Policy	
Or one approved research elective from outside sociology <sup>3</sup>		
<i>Introductory Computing</i>		
SOC/C&E SOC 365	Data Management for Sociological Research	3-4
<i>Research Practicum</i>		
SOC/C&E SOC 693	Practicum in Analysis and Research <sup>4</sup>	3
<b>Electives</b>		
Select additional courses required by CAR and sociology electives to bring total credits to 36		
Total Credits		35-38

<sup>1</sup> Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.

<sup>2</sup> Statistics courses taken outside of the Department of Sociology will not count as part of the 36-credit minimum in the CAR Option or as part of the 15-credit upper-level minimum in residence.

<sup>3</sup> See CAR director or undergraduate advisor for the current list.

<sup>4</sup> This course is offered in spring semester only, and must be preceded by a research internship arranged by the CAR faculty director. Students who have completed this option will have completed graduate-level statistics, and if they enter the graduate program here, may apply 6 credits toward the M.A. requirements.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all SOC courses and courses that count toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in SOC, taken on campus

<sup>1</sup>Sociology defines Upper-Level as Courses 300–699 **except**:

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 497	Study Abroad in Sociology	1-6

## THESIS OF DISTINCTION

This distinction is available to students who write a thesis but who do not earn Honors in the Major. A thesis of distinction requires a senior thesis of high caliber, but no specific cumulative grade point average is required.

## HONORS IN THE MAJOR

Students may declare Honors in the Sociology Major in consultation with the Sociology undergraduate advisor.

## HONORS IN THE SOCIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Sociology students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all SOC courses, and all courses accepted in the major
- Complete 21 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC 681	Senior Honors Thesis	3
SOC 682	Senior Honors Thesis	3

The remaining 9 Honors credits must be in courses at or above the 300 level.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

the ways events and processes in one country are linked to those in other countries.

#### 6. Prepare for Graduate School and the Job Market:

An undergraduate major in sociology provides an excellent foundation for work and graduate study in a wide range of fields including law, business, social work, medicine, policy research, public health, public administration and, of course, sociology. With the aid of faculty and staff, students use their social research skills to identify opportunities for employment or further study, assess their qualifications for these opportunities, and identify strategies for gaining the necessary knowledge and experience to improve their qualifications. Students are encouraged to develop and maintain portfolios of their written work and educational experiences to aid them in preparing applications.

## LEARNING OUTCOMES

- 1. Conduct Research and Analyze Data:**  
Sociology encompasses both qualitative and quantitative research methods. Quantitative methods are used in market research, opinion polling, sales, government, and countless other applications and allow researchers to recognize trends and patterns and produce social statistics. Qualitative research skills provide an in depth understanding of interactions, communications, worksite practices, and social worlds. Advanced sociological research methods require graduate-level training beyond the scope of our undergraduate major, but we expect that all undergraduate majors will be able to conduct small-scale research using surveys, interviews, experiments, textual analysis or observations in which they formulate a research question, collect data, analyze results, and draw conclusions.
- 2. Critically Evaluate Published Research:**  
Sociology graduates will be able to read and evaluate published research as it appears in academic journals and popular or policy publications. They will be able to identify the research methods used, assess the quality of the sample, assess the quality of measurements and procedures, evaluate the links between the data and the interpretations, identify possible threats to the validity of the results, and provide an overall assessment of the trustworthiness of the research results. They will be able to read and evaluate a set of research articles on the same broad issue and be able to draw summarize the research findings across multiple issue.
- 3. Communicate Skillfully:**  
Because the sociology major involves a large amount of reading, writing, and discussion, majors learn how to convey ideas effectively in writing, presentations, and everyday conferences and meetings. Sociology majors write papers and make oral presentations that build arguments and assess evidence in a clear and effective manner.
- 4. Critical Thinking about Society and Social Processes:**  
Sociological inquiry involves learning to look beyond the surface of issues to discover the "why" and "how" of social order and structure. Sociology majors develop strong analytical skills and learn to solve problems and identify opportunities. They are able to consider the underlying social mechanisms that may be creating a situation, identify evidence that may adjudicate between alternate explanations for phenomena, and develop proposed policies or action plans in light of theory and data.
- 5. See Things from a Global Perspective:**  
Sociologists learn about different cultures, groups, and societies. They examine both variation and universality across places and through history. They are aware of the diversity of backgrounds and experiences among residents of the United States. They understand

## ADVISING AND CAREERS

### ADVISING

This university is a very big place. Even the most well-prepared new students will have moments when they say to themselves, "Uh oh. What have I got myself into going to such a big school? Choosing courses at SOAR was stressful, fun, or both, but after SOAR am I on my own?" The answer is no. Every student has at least one assigned advisor. Over the course of their time at the university, students may have several assigned advisors. That is a good thing; L&S advisors are highly networked, and they always communicate with each other about shared students.

When students read their DARS reports—documents that were developed to help them find their way to a timely graduation, they can feel overwhelmed; it looks like they need 500 credits to graduate. How can they get all those requirements done? Do sociology (or Spanish, or English) majors really have to take biology courses?

In the sociology department, we take advising very seriously. We encourage our majors to see the advisor at least once every semester. The advisor will help you summarize the DARS and map your completed coursework onto the goals and timeline for graduation, including the sociology major and L&S requirements. The sociology advisor will have departmental or college news about guest speakers, new faculty, new courses, internships, and scholarships. This advisor will also be able to assist in preparation for, and applications to graduate school, and be able to connect students with faculty, whose information about various sociology programs is always the most current. The sociology advisor will also see freshmen and sophomores exploring the major in sociology.

### CAREERS

Sociology majors do very well in the job market. The critical, analytic, and quantitative skills they have mastered in the major, along with their commitments to social justice and their understanding of organizations make them desirable job candidates. Every year the department invites sociology alumni to campus for career panels or "speed mentoring." Current sociology majors get to talk to people only slightly older than themselves who have successfully made the transitions from undergraduate to professional.

Sociology also has an advisor devoted exclusively to careers. This advisor teaches a 1-credit course where students learn the arts of resume building and resume writing, applying for and getting internships, and in which they practice self-reflection activities which lead to insights about what they really want to do after college, and where they learn how to

make connections between their academic work and their work in the “real world.” This advisor is also available for one-on-one advising.

Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers). See L&S Career Services (<http://careers.ls.wisc.edu>) for more information.

## PEOPLE

Professors Carlson, Emirbayer, Ermakoff, Ferree, Ford, Freeland, Fujimura, Gerber, Goldberg, Grodsky, Herd, Logan, Massoglia, Maynard, Montgomery, Oliver, Raymo, Rogers, Schaeffer, Schwartz, Seidman, Wright

Associate Professors Elwert, Fletcher, Grant, Lim, Nobles

Assistant Professors Conti, Engelman, Goffman

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning described below—tools, breadth, and depth—work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

Additional information about the Wisconsin Experience can be found through the Office of Admissions and Recruitment/Why UW link ([https://www.admissions.wisc.edu/why/wisconsin\\_experience.php](https://www.admissions.wisc.edu/why/wisconsin_experience.php)).

## SOCIOLOGY, B.S.

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office’s resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students “Course Requisites Not Met” enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as “electives,” numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW–Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science. These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC/C&E SOC 361 Statistics for Sociologists II, SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## PREREQUISITES, L&S BREADTH, AND COURSE LEVELS

Sociology course numbers over 300 indicate subject matter rather than level of difficulty. Unless indicated otherwise, prerequisites at the upper level are junior standing and an introductory course in sociology or consent of instructor.

Most courses in sociology count toward the social studies breadth requirement. Courses SOC/GEN&WS 200 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies, SOC/GEOG/HISTORY/LCA/POLI SCI 244 Introduction to Southeast Asia: Vietnam to the Philippines, SOC/GEOG/HISTORY/LCA/POLI SCI 252 The Civilizations of India-Modern Period, and SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 Africa: An Introductory Survey count toward breadth requirements in either humanities or social studies. The following do not count toward any breadth requirement:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3
SOC 496	Topics in Sociology	1-3
SOC/C&E SOC 693	Practicum in Analysis and Research	3
SOC/LEGAL ST 694	Criminal Justice Field Observation	2-3

## HOW TO GET IN

Sociology has no grade point minimum or prerequisite classes for declaring the major. However, students must have an in-person meeting with the undergraduate advisor for a review of the major requirements and assessment of the progress toward graduation. Sociology majors pursuing the Concentration in analysis and Research are admitted after earning a 3.0 grade point average in SOC/C&E SOC 360 Statistics for Sociologists I and SOC/C&E SOC 357 Methods of Sociological Inquiry.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
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Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE SOCIOLOGY MAJOR

A minimum of 30 credits in SOC courses is required for the basic major. A minimum of 36 credits in SOC courses is required for the elective Option—Concentration in Analysis and Research (CAR).

All students are required to take **four** foundation core courses (Introduction, Research Methods, Statistics I, and Classical Sociological Theory) **and four** additional upper-level distribution courses that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses.

Code	Title	Credits
<b>Foundation (Core) Courses</b>		
<i>Introduction to SOC (choose one)</i>		3-4
SOC/ C&E SOC 210	Survey of Sociology	
SOC/ C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	
<i>Research Methods</i> <sup>1</sup>		

SOC/C&E SOC 357 Methods of Sociological Inquiry (Research Methods) 3-4

#### Statistics

SOC/C&E SOC 360 Statistics for Sociologists I 4

OR select one equivalent statistics course from another department:<sup>2</sup>

GEN BUS 303 Business Statistics

ECON 310 Statistics: Measurement in Economics

GEOG 360 Quantitative Methods in Geographical Analysis

MATH/STAT 310 Introduction to Probability and Mathematical Statistics II

PSYCH 210 Basic Statistics for Psychology

PSYCH 280 Honors Basic Statistics for Psychology

STAT 301 Introduction to Statistical Methods

STAT 371 Introductory Applied Statistics for the Life Sciences

#### Classical Theory:

SOC/C&E SOC 475 Classical Sociological Theory 3

#### Distribution Courses

Select 4 courses from at least 2 different areas (see below)

#### Electives

Select additional SOC electives to bring total credits to 30

<sup>1</sup> Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.

<sup>2</sup> Statistics courses taken outside of the Department of Sociology will not count for part of the 30-credit minimum in the major or for part of the 15-credit upper-level residence requirement. However, students may have good reason for substituting SOC/C&E SOC 360. For example, STAT 301 and STAT 371 satisfy part of the B.S. Math requirement—and/or count as Natural Science for the B.A. SOC/C&E SOC 360 does not.

## DISTRIBUTION AREAS

Select 4 courses from at least 2 of the seven areas below.

### Additional Methods/Statistics

Code	Title	Credits
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3
SOC/C&E SOC 365	Data Management for Sociological Research	3-4
SOC 375	Introduction to Mathematical Sociology	3
SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Additional Theory

Code	Title	Credits
SOC 476	Contemporary Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 462	Study Abroad in Additional Theory <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Deviant Behavior

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/SOC WORK 422	Social Issues in Aging	3
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Social Psychology

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/PSYCH 456	Introductory Social Psychology	3-4
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/C&E SOC 578	Poverty and Place	3
SOC 464	Study Abroad in Social Psychology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Social Organization

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/C&E SOC/GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3



SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 620	Comparative Racial Inequality	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC/LCA/ RELIG ST 634	Social Structure of India	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC 643	Sociology of Occupations and Professions	3
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 649	Sociology of Work and Employment	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3
SOC 465	Study Abroad in Social Organization	1-6 <sup>3</sup>

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Demography and Ecology

Code	Title	Credits
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3
SOC 674	Demographic Techniques I	3
SOC 460	Study Abroad in Demography and Ecology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### Community and Environmental Sociology

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all SOC courses and courses that count toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in SOC, taken on campus

<sup>1</sup>Sociology defines upper-level as courses 300–699 **except**:

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 497	Study Abroad in Sociology	1-6

### CONCENTRATION IN ANALYSIS AND RESEARCH ("CAR") WHAT IS "CAR"?

The Concentration in Analysis and Research—an elective option within the undergraduate sociology major—is designed for students who do well and are interested in research methods and statistics. CAR prepares students for entry-level jobs in applied social research and/or for graduate study. Key features of the concentration include advanced statistics courses, training in social science computing, and research. By selecting appropriate electives and internships, students may focus their training on demography, survey research, marketing and communications, criminal justice, health care, education, social services, natural resources, organizations, or personnel and human resources.

#### Requirements for the CAR Option

Concentration in Analysis and Research (CAR)—Option noted on transcript.

Faculty director: Professor James Raymo, 2446 Social Science; 608-262-2783; jraymo@ssc.wisc.edu

To be admitted to the CAR program, students must have a minimum GPA of 3.000 (B) in Methods and Statistics. To complete the CAR program, students must complete the following 36 credits of SOC courses, meet the requirements and earn a minimum GPA of 3.000 in those courses unique to the CAR option.

All students are required to take four foundation core courses (Introduction, Research, Statistics, and Theory) and additional CAR Distribution courses in Statistics, Research, Computing, and Practicum that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses and the option has several sequenced courses, some of which are taught only once a year.

Code	Title	Credits
<b>Foundation Courses</b>		
<i>Introduction</i>		
Select one of the following:		3-4
SOC/C&E SOC 210	Survey of Sociology	
SOC/C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	
<i>Research Methods</i> <sup>1</sup>		
SOC/C&E SOC 357	Methods of Sociological Inquiry (Statistic for Sociologists I)	
<i>Statistics I</i> <sup>2</sup>		
SOC/C&E SOC 360	Statistics for Sociologists I	4
or		
GEN BUS 303	Business Statistics (Statistics I)	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
PSYCH 210	Basic Statistics for Psychology	
PSYCH 280	Honors Basic Statistics for Psychology	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<i>Statistics II</i> <sup>2</sup>		
SOC/C&E SOC 361	Statistics for Sociologists II	3
or		
ECON 410	Introductory Econometrics	4
POLI SCI 552	Multivariable Statistical Inference for Political Research	3-4
STAT 302	Accelerated Introduction to Statistical Methods	3
<i>Statistics III</i> <sup>2</sup>		
SOC 362	Statistics for Sociologists III	3
or		

STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	3
<i>Theory</i>		
SOC/C&E SOC 475	Classical Sociological Theory	3
<b>"CAR" Distribution Courses</b>		
<i>Research Electives</i>		
Select 2 of the following:		
SOC 375	Introduction to Mathematical Sociology	
SOC 376	Mathematical Models of Social Systems	
SOC 535	Talk and Social Interaction	
SOC/ECON 663	Population and Society	
SOC 674	Demographic Techniques I	
SOC/C&E SOC 676	Applied Demography: Planning and Policy	
Or one approved research elective from outside sociology <sup>3</sup>		
<i>Introductory Computing</i>		
SOC/C&E SOC 365	Data Management for Sociological Research	3-4
<i>Research Practicum</i>		
SOC/C&E SOC 693	Practicum in Analysis and Research <sup>4</sup>	3
<b>Electives</b>		
Select additional courses required by CAR and sociology electives to bring total credits to 36		
Total Credits		35-38

- Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.
- Statistics courses taken outside of the Department of Sociology will not count as part of the 36-credit minimum in the CAR Option or as part of the 15-credit upper-level minimum in residence.
- See CAR director or undergraduate advisor for the current list.
- This course is offered in spring semester only, and must be preceded by a research internship arranged by the CAR faculty director. Students who have completed this option will have completed graduate-level statistics, and if they enter the graduate program here, may apply 6 credits toward the M.A. requirements.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all SOC courses and courses that count toward the major

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in SOC, taken on campus

<sup>1</sup>Sociology defines Upper-Level as Courses 300–699 **except**:

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC/LEGAL ST 415	The Legal Profession	3-4

SOC 497

Study Abroad in Sociology

1-6

## THESIS OF DISTINCTION

This distinction is available to students who write a thesis but who do not earn Honors in the Major. A thesis of distinction requires a senior thesis of high caliber, but no specific cumulative grade point average is required.

## HONORS IN THE MAJOR

Students may declare Honors in the Sociology Major in consultation with the Sociology undergraduate advisor.

### HONORS IN THE SOCIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Sociology students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all SOC courses, and all courses accepted in the major
- Complete 21 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC 681	Senior Honors Thesis	3
SOC 682	Senior Honors Thesis	3

The remaining 9 Honors credits must be in courses at or above the 300 level.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### 1. Conduct Research and Analyze Data:

Sociology encompasses both qualitative and quantitative research methods. Quantitative methods are used in market research, opinion polling, sales, government, and countless other applications and

allow researchers to recognize trends and patterns and produce social statistics. Qualitative research skills provide an in depth understanding of interactions, communications, worksite practices, and social worlds. Advanced sociological research methods require graduate-level training beyond the scope of our undergraduate major, but we expect that all undergraduate majors will be able to conduct small-scale research using surveys, interviews, experiments, textual analysis or observations in which they formulate a research question, collect data, analyze results, and draw conclusions.

### 2. Critically Evaluate Published Research:

Sociology graduates will be able to read and evaluate published research as it appears in academic journals and popular or policy publications. They will be able to identify the research methods used, assess the quality of the sample, assess the quality of measurements and procedures, evaluate the links between the data and the interpretations, identify possible threats to the validity of the results, and provide an overall assessment of the trustworthiness of the research results. They will be able to read and evaluate a set of research articles on the same broad issue and be able to draw summarize the research findings across multiple issue.

### 3. Communicate Skillfully:

Because the sociology major involves a large amount of reading, writing, and discussion, majors learn how to convey ideas effectively in writing, presentations, and everyday conferences and meetings. Sociology majors write papers and make oral presentations that build arguments and assess evidence in a clear and effective manner.

### 4. Critical Thinking about Society and Social Processes:

Sociological inquiry involves learning to look beyond the surface of issues to discover the "why" and "how" of social order and structure. Sociology majors develop strong analytical skills and learn to solve problems and identify opportunities. They are able to consider the underlying social mechanisms that may be creating a situation, identify evidence that may adjudicate between alternate explanations for phenomena, and develop proposed policies or action plans in light of theory and data.

### 5. See Things from a Global Perspective:

Sociologists learn about different cultures, groups, and societies. They examine both variation and universality across places and through history. They are aware of the diversity of backgrounds and experiences among residents of the United States. They understand the ways events and processes in one country are linked to those in other countries.

### 6. Prepare for Graduate School and the Job Market:

An undergraduate major in sociology provides an excellent foundation for work and graduate study in a wide range of fields including law, business, social work, medicine, policy research, public health, public administration and, of course, sociology. With the aid of faculty and staff, students use their social research skills to identify opportunities for employment or further study, assess their qualifications for these opportunities, and identify strategies for gaining the necessary knowledge and experience to improve their qualifications. Students are encouraged to develop and maintain portfolios of their written work and educational experiences to aid them in preparing applications.

## ADVISING AND CAREERS

### ADVISING

This university is a very big place. Even the most well-prepared new students will have moments when they say to themselves, “Uh oh. What have I got myself into going to such a big school? Choosing courses at SOAR was stressful, fun, or both, but after SOAR am I on my own?” The answer is no. Every student has at least one assigned advisor. Over the course of their time at the university, students may have several assigned advisors. That is a good thing; L&S advisors are highly networked, and they always communicate with each other about shared students.

When students read their DARS reports—documents that were developed to help them find their way to a timely graduation, they can feel overwhelmed; it looks like they need 500 credits to graduate. How can they get all those requirements done? Do sociology (or Spanish, or English) majors really have to take biology courses?

In the sociology department, we take advising very seriously. We encourage our majors to see the advisor at least once every semester. The advisor will help you summarize the DARS and map your completed coursework onto the goals and timeline for graduation, including the sociology major and L&S requirements. The sociology advisor will have departmental or college news about guest speakers, new faculty, new courses, internships, and scholarships. This advisor will also be able to assist in preparation for, and applications to graduate school, and be able to connect students with faculty, whose information about various sociology programs is always the most current. The sociology advisor will also see freshmen and sophomores exploring the major in sociology.

### CAREERS

Sociology majors do very well in the job market. The critical, analytic, and quantitative skills they have mastered in the major, along with their commitments to social justice and their understanding of organizations make them desirable job candidates. Every year the department invites sociology alumni to campus for career panels or “speed mentoring.” Current sociology majors get to talk to people only slightly older than themselves who have successfully made the transitions from undergraduate to professional.

Sociology also has an advisor devoted exclusively to careers. This advisor teaches a 1-credit course where students learn the arts of resume building and resume writing, applying for and getting internships, and in which they practice self-reflection activities which lead to insights about what they really want to do after college, and where they learn how to make connections between their academic work and their work in the “real world.” This advisor is also available for one-on-one advising.

Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers). See L&S Career Services (<http://careers.ls.wisc.edu>) for more information.

## PEOPLE

Professors Carlson, Emirbayer, Ermakoff, Ferree, Ford, Freeland, Fujimura, Gerber, Goldberg, Grodsky, Herd, Logan, Massoglia, Maynard, Montgomery, Oliver, Raymo, Rogers, Schaeffer, Schwartz, Seidman, Wright

Associate Professors Elwert, Fletcher, Grant, Lim, Nobles

Assistant Professors Conti, Engelman, Goffman

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning described below—tools, breadth, and depth—work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

Additional information about the Wisconsin Experience can be found through the Office of Admissions and Recruitment/Why UW link ([https://www.admissions.wisc.edu/why/wisconsin\\_experience.php](https://www.admissions.wisc.edu/why/wisconsin_experience.php)).

## SPANISH AND PORTUGUESE

The Department of Spanish and Portuguese offers an integrated curriculum in introductory and specialized instruction in Spanish and Portuguese languages, literatures, and linguistics for undergraduates to fulfill major, college, and campus requirements as well as for those seeking fluency and a solid language preparation for other opportunities. The objectives and goals of the undergraduate majors include the skills of advanced proficiency in oral communication and written expression, an understanding of Hispanic and Luso-Brazilian cultures, general familiarity with aspects of Hispanic and Luso-Brazilian literatures, and an understanding of aspects of Ibero-Romance linguistics.

## DEGREES/MAJORS/CERTIFICATES

- Portuguese, B.A. (p. 1093)
- Portuguese, B.S. (p. 1095)
- Spanish Studies for Business Students, Certificate (p. 1098)
- Spanish Studies for Business Students, Certificate (<http://guide.wisc.edu/undergraduate/letters-science/spanish-portuguese/spanish-studies-business-students-certificate>)
- Spanish, B.A. (p. 1099)
- Spanish, B.S. (p. 1102)

## PEOPLE

Professors Albuquerque, Beilin, Bilbija, Close, Corfis, De Ferrari, Egea, Frantzen, Hildner, Hutchinson, Madureira, Medina, Podestá, Sanchez, Sapega

Associate Professors Alcalá-Galán, Ancos-García, Goldgel-Carballo, Hernández, Pellegrini, Rao, Stafford, Tejedo Herrera

Assistant Professors Armstrong, Cerezo Paredes, Comparone

Senior Lecturer Mercado

Lecturer Rodríguez-Guridi

Associate Lecturer Fondow

Faculty Associates Gemrich, Harrington

Associate Faculty Associates Kaaikiola Strohbusch, Neumayer, Pujol

Department Administrator Simpson

Program Associate Tanner

Graduate Coordinator Fanis

Undergraduate Advisor Thompson

## PORTUGUESE, B.A.

Here are some of the many reasons to learn Portuguese.

- Close to 250 million people speak Portuguese. Brazil alone has a population of 205 million.
- Portuguese is the sixth most widely spoken language in the world, before German (10th), French (11th) and Italian (15th).
- Portuguese is spoken in 11 countries on four continents. Portuguese is the official language of Portugal, Brazil, Angola, Cape Verde, Guinea-Bissau, Mozambique, São Tomé and Príncipe, East Timor, and is also widely spoken in Equatorial Guinea, Macau (China), and Goa (India).
- Portuguese is a working and/or official language of important international organizations, such as the African Union, the Community of Portuguese Language Countries, the European Union, Mercosul, the Organization of American States, and the Organization of Ibero-American States.
- An estimated 1.3 million native Portuguese-speakers live in the United States.
- To study Portuguese is an asset in today's global economy. For example, Brazil's economy is among the largest in the world.
- The Portuguese novelist José Saramago won the 1998 Nobel Prize for Literature. The music, festivities, culture, and art of the Portuguese-speaking countries are appreciated all over the world.
- Portuguese shares some grammar rules, sentence structure, and similar vocabulary words with other Romance languages. If you already speak French, Spanish or Italian, Portuguese is an easy and fun language to learn.
- You will certainly enjoy our Portuguese classes that are student-focused and culturally engaging! Our 101–102 textbook will soon be available as an interactive open-access e-book.

- Last but not least, Brazil is the only country that has won the World Soccer Cup Championship five times.

## HOW TO GET IN

Students may declare at any time prior to attaining senior standing (86 credits) in consultation with the Portuguese undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language • Complete the fourth unit of a foreign language; OR  
 • Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth • Humanities, 12 credits: 6 of the 12 credits must be in literature  
 • Social Sciences, 12 credits  
 • Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR

Following are the Portuguese major requirements for all students declaring the Portuguese major on or after August 23, 2010.

Code	Title	Credits
<b>26 PORTUG credits beyond PORTUG 201</b> <sup>1</sup>		
<i>Survey of Portuguese Literature</i>		
Select one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG 467	Survey of Portuguese Literature since 1825	
PORTUG 468	Survey of Brazilian Literature since 1890	
<i>Additional Portuguese Literature</i>		
Select one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG/ GEN&WS 450	Brazilian Women Writers	

PORTUG/ AFRICAN 451 Lusophone African Literature

PORTUG 467 Survey of Portuguese Literature since 1825

PORTUG 468 Survey of Brazilian Literature since 1890

PORTUG 640 Topics in Luso-Brazilian Literature

### *Portuguese Culture/Civilization*

Select one of the following: 3

PORTUG 361 Portuguese Civilization

PORTUG 362 Brazilian Civilization

PORTUG 364 Historical and Cultural Traditions of Brazil

PORTUG/ GEN&WS 460 Carmen Miranda

PORTUG 642 Topics in Luso-Brazilian Culture

### *Composition and Conversation*

Select two of the following: 6

PORTUG 225 Third Year Conversation and Composition

PORTUG 226 Third Year Conversation and Composition

PORTUG 311 Fourth Year Composition and Conversation

PORTUG 312 Fourth Year Composition and Conversation

### *Elective Courses in PORTUG*

Select two additional PORTUG courses numbered 302 or higher. 6

Select additional PORTUG courses beyond PORTUG 201 to bring total credits to 26.<sup>1</sup> 5

### *Second Romance Language*

Two units of another Romance language (French, Italian, or Spanish) taken either in high school or in college.<sup>2</sup>

Total Credits 26

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in PORTUG and major courses

2.000 GPA on 15 upper-level major credits in residence<sup>3</sup>

15 credits in PORTUG, taken at UW–Madison

<sup>1</sup> May not include PORTUG 301 Intensive Portuguese which is the equivalent of PORTUG 101 First Semester Portuguese and PORTUG 102 Second Semester Portuguese.

<sup>2</sup> Coursework in Spanish is recommended.

<sup>3</sup> PORTUG 220 through 699 are upper level in the major

## HONORS IN THE MAJOR

Students may declare Honors in the Portuguese Major in consultation with the Portuguese undergraduate advisor.

### HONORS IN THE PORTUGUESE MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Portuguese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn 3.500 GPA for all PORTUG courses at or above PORTUG 301
- Complete at least 16 credits, taken for Honors, with individual grades of B or better, to include:
  - 9 credits from PORTUG 202 to 680, excluding PORTUG 301
  - A two-semester Senior Honors Thesis in PORTUG 681 and PORTUG 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

### ADVISING

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## PEOPLE

Professors Albuquerque, Beilin, Bilbija, Close, Corfis, De Ferrari, Egea, Frantzen, Hildner, Hutchinson, Madureira, Medina, Podestá, Sanchez, Saiega

Associate Professors Alcalá-Galán, Ancos-García, Goldgel-Carballo, Hernández, Pellegrini, Rao, Stafford, Tejedo Herrera

Assistant Professors Armstrong, Cerezo Paredes, Comparone

Senior Lecturer Mercado

Lecturer Rodríguez-Guridi

Associate Lecturer Fondow

Faculty Associates Gemrich, Harrington

Associate Faculty Associates Kaikiola Strobusch, Neumayer, Pujol

Department Administrator Simpson

Program Associate Tanner

Graduate Coordinator Fanis

Undergraduate Advisor Thompson

## PORTUGUESE, B.S.

Here are some of the many reasons to learn Portuguese.

- Close to 250 million people speak Portuguese. Brazil alone has a population of 205 million.
- Portuguese is the sixth most widely spoken language in the world, before German (10th), French (11th) and Italian (15th).
- Portuguese is spoken in 11 countries on four continents. Portuguese is the official language of Portugal, Brazil, Angola, Cape Verde, Guinea-Bissau, Mozambique, São Tomé and Príncipe, East Timor, and is also widely spoken in Equatorial Guinea, Macau (China), and Goa (India).
- Portuguese is a working and/or official language of important international organizations, such as the African Union, the Community of Portuguese Language Countries, the European Union, Mercosul, the Organization of American States, and the Organization of Ibero-American States.
- An estimated 1.3 million native Portuguese-speakers live in the United States.
- To study Portuguese is an asset in today's global economy. For example, Brazil's economy is among the largest in the world.
- The Portuguese novelist José Saramago won the 1998 Nobel Prize for Literature. The music, festivities, culture, and art of the Portuguese-speaking countries are appreciated all over the world.
- Portuguese shares some grammar rules, sentence structure, and similar vocabulary words with other Romance languages. If you already speak French, Spanish or Italian, Portuguese is an easy and fun language to learn.
- You will certainly enjoy our Portuguese classes that are student-focused and culturally engaging! Our 101–102 textbook will soon be available as an interactive open-access e-book.

- Last but not least, Brazil is the only country that has won the World Soccer Cup Championship five times.

## HOW TO GET IN

Students may declare at any time prior to attaining senior standing (86 credits) in consultation with the Portuguese undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Following are the Portuguese major requirements for all students declaring the Portuguese major on or after August 23, 2010.

Code	Title	Credits
<b>26 PORTUG credits beyond PORTUG 201</b> <sup>1</sup>		
<i>Survey of Portuguese Literature</i>		
Select one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG 467	Survey of Portuguese Literature since 1825	
PORTUG 468	Survey of Brazilian Literature since 1890	
<i>Additional Portuguese Literature</i>		
Select one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG/ GEN&WS 450	Brazilian Women Writers	
PORTUG/ AFRICAN 451	Lusophone African Literature	
PORTUG 467	Survey of Portuguese Literature since 1825	



PORTUG 468	Survey of Brazilian Literature since 1890	
PORTUG 640	Topics in Luso-Brazilian Literature	
<i>Portuguese Culture/Civilization</i>		
Select one of the following:		3
PORTUG 361	Portuguese Civilization	
PORTUG 362	Brazilian Civilization	
PORTUG 364	Historical and Cultural Traditions of Brazil	
PORTUG/ GEN&WS 460	Carmen Miranda	
PORTUG 642	Topics in Luso-Brazilian Culture	
<i>Composition and Conversation</i>		
Select two of the following:		6
PORTUG 225	Third Year Conversation and Composition	
PORTUG 226	Third Year Conversation and Composition	
PORTUG 311	Fourth Year Composition and Conversation	
PORTUG 312	Fourth Year Composition and Conversation	
<i>Elective Courses in PORTUG</i>		
Select two additional PORTUG courses numbered 302 or higher.		6
Select additional PORTUG courses beyond PORTUG 201 to bring total credits to 26. <sup>1</sup>		5
<i>Second Romance Language</i>		
Two units of another Romance language (French, Italian, or Spanish) taken either in high school or in college. <sup>2</sup>		
Total Credits		26

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in PORTUG and major courses

2.000 GPA on 15 upper-level major credits in residence<sup>3</sup>

15 credits in PORTUG, taken at UW–Madison

<sup>1</sup> May not include PORTUG 301 Intensive Portuguese which is the equivalent of PORTUG 101 First Semester Portuguese and PORTUG 102 Second Semester Portuguese.

<sup>2</sup> Coursework in Spanish is recommended.

<sup>3</sup> PORTUG 220 through 699 are upper level in the major

## HONORS IN THE MAJOR

Students may declare Honors in the Portuguese Major in consultation with the Portuguese undergraduate advisor.

### HONORS IN THE PORTUGUESE MAJOR REQUIREMENTS

To earn the B.A. or B.S. with Honors in the Major in Portuguese students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn 3.500 GPA for all PORTUG courses at or above PORTUG 301

- Complete at least 16 credits, taken for Honors, with individual grades of B or better, to include:

- 9 credits from PORTUG 202 to 680, excluding PORTUG 301
- A two-semester Senior Honors Thesis in PORTUG 681 and PORTUG 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## ADVISING AND CAREERS

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## PEOPLE

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Associate Lecturer Fondow

Faculty Associates Gemrich, Harrington

Associate Faculty Associates Kaaiola Strobusch, Neumayer, Pujol

Department Administrator Simpson

Program Associate Tanner

Graduate Coordinator Fanis

Undergraduate Advisor Thompson

## SPANISH STUDIES FOR BUSINESS STUDENTS, CERTIFICATE

Did you know that by 2050 the United States could have more Spanish speakers than any other country (<http://qz.com/441174/by-2050-united-states-will-have-more-spanish-speakers-than-any-other-country/>)?

Spanish continues to gain ground as a widely-spoken national and international language, making the ability to communicate effectively in both written and spoken Spanish an invaluable intellectual, social, cultural, and professional resource. Spanish is the official or co-official language of 21 countries, and with more than 400 million speakers worldwide (projected increase to about 530 million by 2050), it is the third most widely-spoken language on the planet after Mandarin and English.

### HOW TO GET IN

Students must earn admission to the School of Business to be eligible for the Certificate in Spanish Studies for Business Majors. The certificate can be declared in consultation with the Spanish Undergraduate Advisor.

### REQUIREMENTS

#### CERTIFICATE REQUIREMENTS

Code	Title	Credits
SPANISH/ INTL BUS 329	Spanish for Business	3
SPANISH 359	Spanish Business Area Studies	3
Select one course from the following:		3
SPANISH 361	Spanish Civilization	
SPANISH 363	Spanish American Civilization	
Select additional credits from Spanish 300-499		6
Total Credits		15

#### SPANISH COURSES 300–499

Code	Title	Credits
SPANISH 311	Advanced Language Practice	3
SPANISH 319	Topics in Spanish Language Practice	1-3
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 325	Advanced Conversation	3
SPANISH 326	Survey of Spanish American Literature	3
SPANISH 327	Introduction to Spanish Linguistics	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH/ MEDIÉVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH 417	Literatura del Siglo de Oro	3-4
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3
SPANISH 435	Cervantes	3
SPANISH 446	Topics in Spanish Linguistics	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH/ CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SPANISH 460	Literatura Hispanoamericana	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 463	The Spanish American Novel	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 465	Literature and Film in Spanish America	3
SPANISH 466	Topics in Spanish American Literature	1
SPANISH/ CHICLA 467	US Latino Literature	3
SPANISH 468	Topics in Hispanic Culture	3
SPANISH/ CHICLA 469	Topics in Hispanic Cultures in the U.S.	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SPANISH 471	Topics in Hispanic Literature	3
SPANISH 472	Hispanic Screen Studies	3
SPANISH 473	Study Abroad in Spanish Language Practice	1-4
SPANISH 474	Study Abroad in Spanish Linguistics	1-4
SPANISH 475	Study Abroad in Hispanic Literatures	1-4

SPANISH 476

Study Abroad in Hispanic Cultures

1-4

## RESIDENCE AND QUALITY OF WORK

Students must maintain a 3.000 cumulative GPA in all courses required for the certificate.

8 SPANISH credits in residence, of which 6 credits must be taken at UW–Madison.

## ADVISING AND CAREERS

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### CAREERS

myBiz Careers and Internships (<https://bus.wisc.edu/bba/mybiz/careers-internships>)

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## SPANISH, B.A.

Did you know that by 2050 the United States could have more Spanish speakers than any other country (<http://qz.com/441174/by-2050-united-states-will-have-more-spanish-speakers-than-any-other-country/>)?

Spanish continues to gain ground as a widely-spoken national and international language, making the ability to communicate effectively

in both written and spoken Spanish an invaluable intellectual, social, cultural, and professional resource. Spanish is the official or co-official language of 21 countries, and with more than 400 million speakers worldwide (projected increase to about 530 million by 2050), it is the third most widely spoken language on the planet after Mandarin and English.

### What can you do with a Spanish major?

The following are just a few of the many career paths for which proficiency in spoken and written Spanish can be a valuable asset:

- Bilingual and Second Language Education
- Medical, Legal & Business Professions
- Journalism
- Travel Industry
- Translation
- Interpretation
- Non-governmental/non-profit work
- Library Science
- Foreign Service

## HOW TO GET IN

Students may declare at any time prior to attaining senior standing (86 credits) in consultation with the Spanish undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

**Mathematics** Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW-Madison

2.000 in intermediate/advanced coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Following are the Spanish major requirements for all students declaring the Spanish major on or after August 26, 2013.

### SPANISH MAJOR PREREQUISITES

Concurrent enrollment is permitted. These prerequisites must be completed before studying more advanced levels of literature or culture/civilization. Please note that though these courses do not count toward the 27 credits required for the Spanish major, all Spanish majors must complete both of these courses. Students can declare the Spanish major at any time; completion of these courses is not a prerequisite to Spanish major declaration.

Code	Title	Credits
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3

### SPANISH MAJOR REQUIREMENTS

Code	Title	Credits
<i>Language Practice</i>		
SPANISH 311	Advanced Language Practice	3
<i>Linguistics</i>		
Select one of the following:		3
SPANISH 320	Spanish Phonetics	
SPANISH 321	The Structure of Modern Spanish	
SPANISH 331	Spanish Applied Linguistics	
<i>Culture/Civilization</i>		
Select one of the following:		3
SPANISH 361	Spanish Civilization	
SPANISH 363	Spanish American Civilization	
SPANISH 468	Topics in Hispanic Culture	
SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	
SPANISH 476	Study Abroad in Hispanic Cultures	
<i>Literature</i>		
Select one of the following:		3
SPANISH 322	Survey of Early Hispanic Literature	
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 326	Survey of Spanish American Literature	
<i>Additional Literature and/or Culture/Civilization and/or Linguistics</i>		
Select 9 additional credits in literature and/or culture/civilization and/or linguistics. (See below for courses that fulfill this requirement.)		9
<i>Required Elective Credits</i>		
Select 6 additional credits in SPANISH courses at or above the 300 level.		6
Students may also choose to take up to 4 credits in LATIN, FRENCH, ITALIAN, or PORTUG, beginning with:		
LATIN 103	Elementary Latin	
FRENCH 201	French for Speakers of Other Romance Languages	
ITALIAN 201	Italian for Speakers of Other Romance Languages	
PORTUG 301	Intensive Portuguese	

and/or more advanced offerings <sup>1</sup>

Total Credits 27

## ADVANCED COURSEWORK

At least 3 credits in SPANISH courses at or above the 400 level must be taken.

## FACULTY ENGAGEMENT

At least 6 credits in SPANISH courses at or above the 300 level must be taken while physically present on the UW–Madison campus.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in SPANISH and major courses

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: SPANISH 220 to 699

15 credits in SPANISH, taken while physically present on the UW–Madison campus.

<sup>1</sup> Coursework in Portuguese is recommended.

## SPANISH LITERATURE, CULTURE/CIVILIZATION, AND LINGUISTICS COURSES

Code	Title	Credits
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 326	Survey of Spanish American Literature	3
SPANISH 327	Introduction to Spanish Linguistics	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 361	Spanish Civilization	3
SPANISH 363	Spanish American Civilization	3
SPANISH/MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH 417	Literatura del Siglo de Oro	3-4
SPANISH/FRENCH/ITALIAN/PORTUG 429	Introduction to the Romance Languages	3
SPANISH 435	Cervantes	3
SPANISH 446	Topics in Spanish Linguistics	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH/CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SPANISH 460	Literatura Hispanoamericana	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 463	The Spanish American Novel	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 465	Literature and Film in Spanish America	3

SPANISH 466	Topics in Spanish American Literature	1
SPANISH 468	Topics in Hispanic Culture	3
SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SPANISH 471	Topics in Hispanic Literature	3
SPANISH 472	Hispanic Screen Studies	3
SPANISH 474	Study Abroad in Spanish Linguistics	1-4
SPANISH 475	Study Abroad in Hispanic Literatures	1-4
SPANISH 476	Study Abroad in Hispanic Cultures	1-4

## HONORS IN THE MAJOR

Students may declare Honors in the Spanish Major in consultation with the Spanish undergraduate advisor.

### HONORS IN THE SPANISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Spanish students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all SPANISH courses 300 level and higher
- Complete the following coursework, taken for Honors, with individual grades of B or better:
  - 6 credits, SPANISH 327 to SPANISH 680
  - 3 credits, SPANISH 300 to SPANISH 680
  - A two-semester Senior Honors Thesis in SPANISH 681 Senior Honors Thesis and SPANISH 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> In certain circumstances (particularly when the student is an Honors candidate in two or more departments), 6 credits in literature, linguistics, or cultural studies at the 500 or 600 level, excluding SPANISH 681, SPANISH 682, SPANISH 691, SPANISH 692, and SPANISH 699, may be substituted for the Honors Thesis, upon recommendation by the Spanish undergraduate advisor.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

Senior Lecturer Mercado

Lecturer Rodríguez-Guridi

Associate Lecturer Fondow

Faculty Associates Gemrich, Harrington

Associate Faculty Associates Kaaikiola Strohbusch, Neumayer, Pujol

Department Administrator Simpson

Program Associate Tanner

Graduate Coordinator Fanis

Undergraduate Advisor Thompson

## LEARNING OUTCOMES

1. Students will develop communication skills in Spanish and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Spanish.
2. Students will demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Spanish, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
3. Students will demonstrate knowledge of Hispanic cultures across historical epochs, including awareness of the social, cultural, and linguistic diversity that characterizes the Spanish-speaking world.
4. Students will demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## ADVISING AND CAREERS

### ADVISING

**Karen Thompson, Undergraduate Advisor**

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608-265-3183

702 Van Hise Hall

1220 Linden Drive

spanport.wisc.edu/undergraduate/advising (<http://spanport.wisc.edu/undergraduate/advising>)

### CAREERS

**Michael Kruse, International Directions Advisor**

mkruse@wisc.edu

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1220 Linden Drive

languages.wisc.edu/languageadvising (<http://www.languages.wisc.edu/languageadvising>)

**Letters & Science Career Services**

careers.ls.wisc.edu (<http://careers.ls.wisc.edu>)

## PEOPLE

Professors Albuquerque, Beilin, Bilbija, Close, Corfis, De Ferrari, Egea, Frantzen, Hildner, Hutchinson, Madureira, Medina, Podestá, Sanchez, Sapega

Associate Professors Alcalá-Galán, Ancos-García, Goldgel-Carballo, Hernández, Pellegrini, Rao, Stafford, Tejedo Herrera

Assistant Professors Armstrong, Cerezo Paredes, Comparone

## SPANISH, B.S.

Did you know that by 2050 the United States could have more Spanish speakers than any other country (<http://qz.com/441174/by-2050-united-states-will-have-more-spanish-speakers-than-any-other-country/>)?

Spanish continues to gain ground as a widely-spoken national and international language, making the ability to communicate effectively in both written and spoken Spanish an invaluable intellectual, social, cultural, and professional resource. Spanish is the official or co-official language of 21 countries, and with more than 400 million speakers worldwide (projected increase to about 530 million by 2050), it is the third most widely spoken language on the planet after Mandarin and English.

**What can you do with a Spanish major?**

The following are just a few of the many career paths for which proficiency in spoken and written Spanish can be a valuable asset:

- Bilingual and Second Language Education
- Medical, Legal & Business Professions
- Journalism
- Travel Industry
- Translation
- Interpretation
- Non-governmental/non-profit work
- Library Science
- Foreign Service

## HOW TO GET IN

**Students may declare at any time prior to attaining senior standing (86 credits) in consultation with the Spanish undergraduate advisor.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR

Following are the Spanish major requirements for all students declaring the Spanish major on or after August 26, 2013.

### SPANISH MAJOR PREREQUISITES

Concurrent enrollment is permitted. These prerequisites must be completed before studying more advanced levels of literature or culture/civilization. Please note that though these courses do not count toward the 27 credits required for the Spanish major, all Spanish majors must complete both of these courses. Students can declare the Spanish major at any time; completion of these courses is not a prerequisite to Spanish major declaration.

Code	Title	Credits
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3

### SPANISH MAJOR REQUIREMENTS

Code	Title	Credits
<i>Language Practice</i>		
SPANISH 311	Advanced Language Practice	3
<i>Linguistics</i>		
Select one of the following:		3
SPANISH 320	Spanish Phonetics	
SPANISH 321	The Structure of Modern Spanish	
SPANISH 331	Spanish Applied Linguistics	
<i>Culture/Civilization</i>		
Select one of the following:		3
SPANISH 361	Spanish Civilization	
SPANISH 363	Spanish American Civilization	
SPANISH 468	Topics in Hispanic Culture	
SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	
SPANISH 476	Study Abroad in Hispanic Cultures	
<i>Literature</i>		
Select one of the following:		3
SPANISH 322	Survey of Early Hispanic Literature	
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 326	Survey of Spanish American Literature	
<i>Additional Literature and/or Culture/Civilization and/or Linguistics</i>		
Select 9 additional credits in literature and/or culture/civilization and/or linguistics. (See below for courses that fulfill this requirement.)		9

<i>Required Elective Credits</i>	
Select 6 additional credits in SPANISH courses at or above the 300 level.	6
Students may also choose to take up to 4 credits in LATIN, FRENCH, ITALIAN, or PORTUG, beginning with:	
LATIN 103	Elementary Latin
FRENCH 201	French for Speakers of Other Romance Languages
ITALIAN 201	Italian for Speakers of Other Romance Languages
PORTUG 301	Intensive Portuguese
and/or more advanced offerings <sup>1</sup>	
Total Credits	27

## ADVANCED COURSEWORK

At least 3 credits in SPANISH courses at or above the 400 level must be taken.

## FACULTY ENGAGEMENT

At least 6 credits in SPANISH courses at or above the 300 level must be taken while physically present on the UW–Madison campus.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in SPANISH and major courses

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence: SPANISH 220 to 699

15 credits in SPANISH, taken while physically present on the UW–Madison campus.

<sup>1</sup> Coursework in Portuguese is recommended.

## SPANISH LITERATURE, CULTURE/CIVILIZATION, AND LINGUISTICS COURSES

Code	Title	Credits
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 326	Survey of Spanish American Literature	3
SPANISH 327	Introduction to Spanish Linguistics	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 361	Spanish Civilization	3
SPANISH 363	Spanish American Civilization	3
SPANISH/MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH 417	Literatura del Siglo de Oro	3-4
SPANISH/FRENCH/ITALIAN/PORTUG 429	Introduction to the Romance Languages	3
SPANISH 435	Cervantes	3
SPANISH 446	Topics in Spanish Linguistics	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3

SPANISH 453	Literature of the Twentieth Century	3
SPANISH/CHICLA 459	Mexico in the Chicano and Chicana Literary Imagination	3
SPANISH 460	Literatura Hispanoamericana	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 463	The Spanish American Novel	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 465	Literature and Film in Spanish America	3
SPANISH 466	Topics in Spanish American Literature	1
SPANISH 468	Topics in Hispanic Culture	3
SPANISH/CHICLA 469	Topics in Hispanic Cultures in the U.S.	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SPANISH 471	Topics in Hispanic Literature	3
SPANISH 472	Hispanic Screen Studies	3
SPANISH 474	Study Abroad in Spanish Linguistics	1-4
SPANISH 475	Study Abroad in Hispanic Literatures	1-4
SPANISH 476	Study Abroad in Hispanic Cultures	1-4

## HONORS IN THE MAJOR

Students may declare Honors in the Spanish Major in consultation with the Spanish undergraduate advisor.

### HONORS IN THE SPANISH MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Spanish students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all SPANISH courses 300 level and higher
- Complete the following coursework, taken for Honors, with individual grades of B or better:
  - 6 credits, SPANISH 327 to SPANISH 680
  - 3 credits, SPANISH 300 to SPANISH 680
  - A two-semester Senior Honors Thesis in SPANISH 681 Senior Honors Thesis and SPANISH 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> In certain circumstances (particularly when the student is an Honors candidate in two or more departments), 6 credits in literature, linguistics, or cultural studies at the 500 or 600 level, excluding SPANISH 681, SPANISH 682, SPANISH 691, SPANISH 692, and SPANISH 699, may be substituted for the Honors Thesis, upon recommendation by the Spanish undergraduate advisor.



## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will develop communication skills in Spanish and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Spanish.
2. Students will demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Spanish, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
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4. Students will demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## ADVISING AND CAREERS

### ADVISING

**Karen Thompson, Undergraduate Advisor**

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608-265-3183

702 Van Hise Hall

1220 Linden Drive

spanport.wisc.edu/undergraduate/advising (<http://spanport.wisc.edu/undergraduate/advising>)

### CAREERS

**Michael Kruse, International Directions Advisor**

mkruse@wisc.edu

1322 Van Hise Hall

1220 Linden Drive

languages.wisc.edu/languageadvising (<http://www.languages.wisc.edu/languageadvising>)

### Letters & Science Career Services

careers.ls.wisc.edu (<http://careers.ls.wisc.edu>)

## PEOPLE

Professors Albuquerque, Beilin, Bilbija, Close, Corfis, De Ferrari, Egea, Frantzen, Hildner, Hutchinson, Madureira, Medina, Podestá, Sanchez, Sapega

Associate Professors Alcalá-Galán, Ancos-García, Goldgel-Carballo, Hernández, Pellegrini, Rao, Stafford, Tejedo Herrera

Assistant Professors Armstrong, Cerezo Paredes, Comparone

Senior Lecturer Mercado

Lecturer Rodríguez-Guridi

Associate Lecturer Fondow

Faculty Associates Gemrich, Harrington

Associate Faculty Associates Kaikiola Strohbush, Neumayer, Pujol

Department Administrator Simpson

Program Associate Tanner

Graduate Coordinator Fanis

Undergraduate Advisor Thompson

## STATISTICS

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators' efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student's learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

## DEGREES/MAJORS/CERTIFICATES

- Statistics, B.A. (p. 1106)
- Statistics, B.S. (p. 1109)

## PEOPLE

### FACULTY

Ané, Chappell, Clayton, Kang, Keles, Larget, Loh, Newton, Qian, Raskutti, Rohe, Shao, Tsui, Wahba, S. Wang, Y. Wang (chair), Yandell, Yuan, C. Zhang, Z. Zhang, A. Zhang, Zhu

### EMERITUS

Bates, Draper, Johnson, Nordheim, Wardrop, and Doksum (retired)

### TEACHING STAFF

Bean, Fischer, Gillett, Keuler, Li, Xia, Yang

### ADMINISTRATIVE STAFF

Brinkerhoff (curricular coordinator), Runyan (department administrator)

### IT STAFF

Beebe, Brabender, Cammilleri (director)

### STUDENT SERVICES COORDINATOR

Nguyen

## STATISTICS, B.A.

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators' efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student's learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

## HOW TO GET IN

To declare the statistics major, student should set up an appointment with a statistics major advisor prior to attaining senior standing (86 credits).

Prospective majors are strongly recommended to have completed the following classes before declaring the major:

- MATH 221 Calculus and Analytic Geometry 1
- MATH 222 Calculus and Analytic Geometry 2
- MATH 234 Calculus--Functions of Several Variables
- STAT 302 Accelerated Introduction to Statistical Methods

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul>
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Note: A unit is one year of high school work or one semester/term of college work.

- L&S Breadth
- Humanities, 12 credits: 6 of the 12 credits must be in literature
  - Social Sciences, 12 credits
  - Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Math</b>		
MATH 221	Calculus and Analytic Geometry 1 (must be completed with grade of C or higher) <sup>1</sup>	5
MATH 222	Calculus and Analytic Geometry 2 (must be completed with grade of C or higher) <sup>1</sup>	4
MATH 234	Calculus–Functions of Several Variables (must be completed with grade of C or higher) <sup>1</sup>	4
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>	3
or MATH 341	Linear Algebra	
<b>Computer Programming</b>		
Select one of the following: <sup>2</sup>		3
COMP SCI 200	Programming I	
COMP SCI 300	Programming II	
COMP SCI 301	Introduction to Data Programming	
COMP SCI 400	Programming III	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	
<b>Statistics Courses</b>		25
<i>Introductory Statistics and Basic Statistical Language</i>		
STAT 302	Accelerated Introduction to Statistical Methods	3

STAT 327	Learning a Statistical Language (Introductory Data Analysis with R)	1
<i>Linear Statistical Models</i>		
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
<i>Mathematical Statistics</i>		
Probability (one course):		3
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
<i>Inference:</i>		
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II <sup>3</sup>	3
<i>Statistics Electives</i>		
STAT electives to reach minimum credits required:		9
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/COMP SCI 471	Introduction to Computational Statistics	
STAT 479	Special Topics in Statistics <sup>4</sup>	
STAT 575	Statistical Methods for Spatial Data	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT 679	Special Topics in Statistics	
STAT 699	Directed Study <sup>5</sup>	
<b>Concentration</b>		
Select either Math Concentration or Applied Concentration		6-12
Total Credits		50-56

<sup>1</sup> An acceptable equivalent for all four of the required mathematics courses is MATH 275 Topics in Calculus I, MATH 276 Topics in Calculus II, MATH 375 Topics in Multi-Variable Calculus and Linear Algebra, and MATH 376 Topics in Multi-Variable Calculus and Differential Equations. MATH 275 and MATH 276 are acceptable equivalents for MATH 221 Calculus and Analytic Geometry 1 and MATH 222 Calculus and Analytic Geometry 2, respectively. MATH 211 Calculus and MATH 213 Calculus and Introduction to Differential Equations are NOT acceptable equivalents for MATH 221, MATH 222, and MATH 234 Calculus–Functions of Several Variables. (Students who have completed MATH 211 and MATH 213 are encouraged to take the Department of Mathematics' Calculus Exam to determine placement in the MATH 221–MATH 222–MATH 234 sequence).

<sup>2</sup> COMP SCI 300 is highly recommended because it will be particularly beneficial in most future careers. Students who have prior computing experience equivalent to COMP SCI 200 (such as AP computer science) are recommended to take COMP SCI 300, and students

who will pursue a second major in computer science must take COMP SCI 300 and COMP SCI 400 to satisfy the computer science major requirements.

3. STAT 312 Introduction to Theory and Methods of Mathematical Statistics II will not be accepted in lieu of STAT/MATH 310 Introduction to Probability and Mathematical Statistics II.
4. STAT 479 Special Topics in Statistics can be repeated for elective credit when enrolled for different topics.
5. Up to 3 credits of STAT 699 Directed Study can count toward these 9 credits. No course identified in Concentration 1 of the major can count towards these 9 credits.

## MATHEMATICS CONCENTRATION

Students intending to pursue graduate study in statistics are strongly advised to take more math classes than the minimum requirements. Linear algebra and real analysis are typically the most important areas of mathematics needed for graduate study in statistics.

Select at least **6 additional credits** of the following:

Code	Title	Credits
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 421	The Theory of Single Variable Calculus	3
MATH 443	Applied Linear Algebra	3
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics	3
MATH/ COMP SCI 514	Numerical Analysis	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 605	Stochastic Methods for Biology	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/ STAT 632	Introduction to Stochastic Processes	3

## APPLIED CONCENTRATION

Select at least **12 credits** of coursework at the 300 level and higher in an area of application of statistical methods as approved by the student's major advisor. This area of application can represent study areas where statistical methods are applied, such as in the natural and social sciences and engineering. This requirement can often be met by the completion of a major in such a study area.

## L&S REQUIREMENTS FOR RESIDENCE AND QUALITY OF WORK IN THE MAJOR

1. 2.000 grade point average in all STAT and major courses
2. 2.000 grade point average in 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are STAT courses: STAT 302 Accelerated Introduction to Statistical Methods to STAT 699 Directed Study, excluding STAT 324 Introductory Applied Statistics for Engineers, STAT 371 Introductory Applied Statistics for the Life Sciences, STAT 441 Introduction to Biostatistics for Pharmacy, STAT/F&W ECOL/HORT 571 Statistical Methods for Bioscience I, and STAT/F&W ECOL/HORT 572 Statistical Methods for Bioscience II.

3. 15 credits in STAT subject, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Statistics Major in consultation with the Statistics major advisor(s). To be admitted to the Honors Program in Statistics, students must have declared statistics, must have a 3.500 overall university GPA, and must have completed STAT 302 Accelerated Introduction to Statistical Methods, STAT/MATH 309 Introduction to Probability and Mathematical Statistics I and STAT 333 Applied Regression Analysis with a GPA of 3.500 or higher.

## HONORS IN THE STATISTICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Statistics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.500 overall university GPA
- Earn a 3.500 GPA for all STAT courses, and all courses accepted in the major
- Complete one of the following:
  - Two courses, taken for Honors, with individual grades of B or better, from Linear Statistical Models, Mathematical Statistics, or Statistics Electives other than STAT 699 Directed Study, or
  - Complete an additional course worth 3 credits from the Statistics Electives list (for a total of 12 statistics electives)
- Complete a two-semester Senior Honors Thesis in STAT 681 Senior Honors Thesis and STAT 682 Senior Honors Thesis, for a total of 6 credits, under the supervision of a member of the faculty of the Department of Statistics.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will be able to frame a scientific question with the appropriate mode of data analysis, to analyze such data correctly, and to summarize and interpret the results in a useful manner. They will master a number of key statistical techniques, certainly including

significance testing, goodness-of-fit testing, and regression analysis, which are common tools in analyzing data. This will include a careful checking of assumptions that underlie the techniques.

- Students will be able to design experiments/studies — in conjunction with scientists proposing the study — that will lead in an efficient manner to the collection of data that can be properly analyzed. They will be able to design studies with multiple factors taking variable reduction techniques into account. They will also be able to interpret and critique designs they encounter in analyzing data.
- Students will be able to use tools from mathematical statistics and probability to assess the quality of point estimators, confidence intervals, and hypothesis tests. They will also be able to demonstrate the skills to connect methods of application to their theoretical underpinnings.
- Students will be able to use a statistical language (with emphasis on R) to manipulate data and perform exploratory data analysis using basic statistical methods. They will be able to write structured R programs using conditional expressions, loops, and functions and to use regular expressions to extract data from text and make high-level visualizations.
- Students will be able to evaluate critically articles that use statistical argumentation. They will be able to assess whether or not the statistical arguments have been developed properly and the conclusions are reliable. If the arguments are not properly developed, they will be able to provide specific evidence for this.

## ADVISING AND CAREERS

### Looking for statistics advising?

Students who are interested in statistics academic advising for the statistics major should contact the advisor group by email: [advising@stat.wisc.edu](mailto:advising@stat.wisc.edu).

### So what can you do with a statistics major after you graduate?

Well-trained statisticians are in strong demand and have excellent employment prospects. Statisticians work in industry and business, in government, and in universities and other research institutions.

In most cases an undergraduate major in statistics can find employment as a quantitative analyst or other “generalist” position. A number of our graduates have been successful following this path. However, in most cases, positions aimed at “professional statisticians” require a master’s (or Ph.D.) degree. As a professional statistician, typical employment in industry might be as a statistical consultant to biologists, engineers, and/or other scientists in a research and development branch of a large company.

The single, best place to look for statistics jobs is the American Statistical Association Career Center (<http://www.amstat.org/ASA/Your-Career/home.aspx>). Consult with a statistics undergraduate advisor about the best fit for you.

Statistical training is seen as very desirable in many other areas (e.g., agricultural, biological, engineering, and social sciences, business, and economics) where the primary activity may not be statistics. In view of this, statistics may often be a strong choice for a second or additional major.

## PEOPLE

### FACULTY

Ané, Chappell, Clayton, Kang, Keles, Larget, Loh, Newton, Qian, Raskutti, Rohe, Shao, Tsui, Wahba, S. Wang, Y. Wang (chair), Yandell, Yuan, C. Zhang, Z. Zhang, A. Zhang, Zhu

### EMERITUS

Bates, Draper, Johnson, Nordheim, Wardrop, and Doksum (retired)

### TEACHING STAFF

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### ADMINISTRATIVE STAFF

Brinkerhoff (curricular coordinator), Runyan (department administrator)

### IT STAFF

Beebe, Brabender, Cammilleri (director)

### STUDENT SERVICES COORDINATOR

Nguyen

## STATISTICS, B.S.

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators’ efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student’s learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

## HOW TO GET IN

To declare the statistics major, student should set up an appointment with a statistics major advisor prior to attaining senior standing (86 credits).

Prospective majors are strongly recommended to have completed the following classes before declaring the major:

- MATH 221 Calculus and Analytic Geometry 1
- MATH 222 Calculus and Analytic Geometry 2
- MATH 234 Calculus—Functions of Several Variables
- STAT 302 Accelerated Introduction to Statistical Methods

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Math</b>		
MATH 221	Calculus and Analytic Geometry 1 (must be completed with grade of C or higher) <sup>1</sup>	5
MATH 222	Calculus and Analytic Geometry 2 (must be completed with grade of C or higher) <sup>1</sup>	4
MATH 234	Calculus–Functions of Several Variables (must be completed with grade of C or higher) <sup>1</sup>	4
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>	3
	or MATH 341 Linear Algebra	
<b>Computer Programming</b>		
	Select one of the following: <sup>2</sup>	3
COMP SCI 200	Programming I	
COMP SCI 300	Programming II	
COMP SCI 301	Introduction to Data Programming	
COMP SCI 400	Programming III	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH/STAT 525	Linear Programming Methods	
<b>Statistics Courses</b>		25
<i>Introductory Statistics and Basic Statistical Language</i>		
STAT 302	Accelerated Introduction to Statistical Methods	3
STAT 327	Learning a Statistical Language (Introductory Data Analysis with R)	1
<i>Linear Statistical Models</i>		
STAT 333	Applied Regression Analysis	3
STAT/M E 424	Statistical Experimental Design	3
<i>Mathematical Statistics</i>		
	Probability (one course):	3

STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
<b>Inference:</b>		
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II <sup>3</sup>	3
<b>Statistics Electives</b>		
STAT electives to reach minimum credits required:		9
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/COMP SCI 471	Introduction to Computational Statistics	
STAT 479	Special Topics in Statistics <sup>4</sup>	
STAT 575	Statistical Methods for Spatial Data	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT 679	Special Topics in Statistics	
STAT 699	Directed Study <sup>5</sup>	
<b>Concentration</b>		
Select either Math Concentration or Applied Concentration		6-12
<b>Total Credits</b>		50-56

<sup>1</sup> An acceptable equivalent for all four of the required mathematics courses is MATH 275 Topics in Calculus I, MATH 276 Topics in Calculus II, MATH 375 Topics in Multi-Variable Calculus and Linear Algebra, and MATH 376 Topics in Multi-Variable Calculus and Differential Equations. MATH 275 and MATH 276 are acceptable equivalents for MATH 221 Calculus and Analytic Geometry 1 and MATH 222 Calculus and Analytic Geometry 2, respectively. MATH 211 Calculus and MATH 213 Calculus and Introduction to Differential Equations are NOT acceptable equivalents for MATH 221, MATH 222, and MATH 234 Calculus—Functions of Several Variables. (Students who have completed MATH 211 and MATH 213 are encouraged to take the Department of Mathematics' Calculus Exam to determine placement in the MATH 221–MATH 222–MATH 234 sequence).

<sup>2</sup> COMP SCI 300 is highly recommended because it will be particularly beneficial in most future careers. Students who have prior computing experience equivalent to COMP SCI 200 (such as AP computer science) are recommended to take COMP SCI 300, and students who will pursue a second major in computer science must take COMP SCI 300 and COMP SCI 400 to satisfy the computer science major requirements.

<sup>3</sup> STAT 312 Introduction to Theory and Methods of Mathematical Statistics II will not be accepted in lieu of STAT/MATH 310 Introduction to Probability and Mathematical Statistics II.

<sup>4</sup> STAT 479 Special Topics in Statistics can be repeated for elective credit when enrolled for different topics.

<sup>5</sup> Up to 3 credits of STAT 699 Directed Study can count toward these 9 credits. No course identified in Concentration 1 of the major can count towards these 9 credits.

## MATHEMATICS CONCENTRATION

Students intending to pursue graduate study in statistics are strongly advised to take more math classes than the minimum requirements. Linear algebra and real analysis are typically the most important areas of mathematics needed for graduate study in statistics.

Select at least **6 additional credits** of the following:

Code	Title	Credits
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 421	The Theory of Single Variable Calculus	3
MATH 443	Applied Linear Algebra	3
MATH/COMP SCI/STAT 475	Introduction to Combinatorics	3
MATH/COMP SCI 514	Numerical Analysis	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 605	Stochastic Methods for Biology	3
MATH 629	Introduction to Measure and Integration	3
MATH/I SY E/OTM/STAT 632	Introduction to Stochastic Processes	3

## APPLIED CONCENTRATION

Select **at least 12 credits** of coursework at the 300 level and higher in an area of application of statistical methods as approved by the student's major advisor. This area of application can represent study areas where statistical methods are applied, such as in the natural and social sciences and engineering. This requirement can often be met by the completion of a major in such a study area.

## L&S REQUIREMENTS FOR RESIDENCE AND QUALITY OF WORK IN THE MAJOR

- 2.000 grade point average in all STAT and major courses
- 2.000 grade point average in 15 credits of upper-level work in the major completed in residence. Courses that count toward this requirement are STAT courses: STAT 302 Accelerated Introduction to Statistical Methods to STAT 699 Directed Study, excluding STAT 324 Introductory Applied Statistics for Engineers, STAT 371 Introductory Applied Statistics for the Life Sciences, STAT 441 Introduction to Biostatistics for Pharmacy, STAT/F&W ECOL/HORT 571 Statistical Methods for Bioscience I, and STAT/F&W ECOL/HORT 572 Statistical Methods for Bioscience II.
- 15 credits in STAT subject, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Statistics Major in consultation with the Statistics major advisor(s). To be admitted to the Honors Program in Statistics, students must have declared statistics, must have a 3.500 overall university GPA, and must have completed STAT 302 Accelerated Introduction to Statistical Methods, STAT/MATH 309 Introduction

to Probability and Mathematical Statistics I and STAT 333 Applied Regression Analysis with a GPA of 3.500 or higher.

## HONORS IN THE STATISTICS MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Statistics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.500 overall university GPA
- Earn a 3.500 GPA for all STAT courses, and all courses accepted in the major
- Complete one of the following:
  - Two courses, taken for Honors, with individual grades of B or better, from Linear Statistical Models, Mathematical Statistics, or Statistics Electives other than STAT 699 Directed Study, or
  - Complete an additional course worth 3 credits from the Statistics Electives list (for a total of 12 statistics electives)
- Complete a two-semester Senior Honors Thesis in STAT 681 Senior Honors Thesis and STAT 682 Senior Honors Thesis, for a total of 6 credits, under the supervision of a member of the faculty of the Department of Statistics.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will be able to frame a scientific question with the appropriate mode of data analysis, to analyze such data correctly, and to summarize and interpret the results in a useful manner. They will master a number of key statistical techniques, certainly including significance testing, goodness-of-fit testing, and regression analysis, which are common tools in analyzing data. This will include a careful checking of assumptions that underlie the techniques.
2. Students will be able to design experiments/studies — in conjunction with scientists proposing the study — that will lead in an efficient manner to the collection of data that can be properly analyzed. They will be able to design studies with multiple factors taking variable

reduction techniques into account. They will also be able to interpret and critique designs they encounter in analyzing data.

3. Students will be able to use tools from mathematical statistics and probability to assess the quality of point estimators, confidence intervals, and hypothesis tests. They will also be able to demonstrate the skills to connect methods of application to their theoretical underpinnings.
4. Students will be able to use a statistical language (with emphasis on R) to manipulate data and perform exploratory data analysis using basic statistical methods. They will be able to write structured R programs using conditional expressions, loops, and functions and to use regular expressions to extract data from text and make high-level visualizations.
5. Students will be able to evaluate critically articles that use statistical argumentation. They will be able to assess whether or not the statistical arguments have been developed properly and the conclusions are reliable. If the arguments are not properly developed, they will be able to provide specific evidence for this.

## ADVISING AND CAREERS

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In most cases an undergraduate major in statistics can find employment as a quantitative analyst or other "generalist" position. A number of our graduates have been successful following this path. However, in most cases, positions aimed at "professional statisticians" require a master's (or Ph.D.) degree. As a professional statistician, typical employment in industry might be as a statistical consultant to biologists, engineers, and/or other scientists in a research and development branch of a large company.

The single, best place to look for statistics jobs is the American Statistical Association Career Center (<http://www.amstat.org/ASA/Your-Career/home.aspx>). Consult with a statistics undergraduate advisor about the best fit for you.

Statistical training is seen as very desirable in many other areas (e.g., agricultural, biological, engineering, and social sciences, business, and economics) where the primary activity may not be statistics. In view of this, statistics may often be a strong choice for a second or additional major.

## PEOPLE

### FACULTY

Ané, Chappell, Clayton, Kang, Keles, Larget, Loh, Newton, Qian, Raskutti, Rohe, Shao, Tsui, Wahba, S. Wang, Y. Wang (chair), Yandell, Yuan, C. Zhang, Z. Zhang, A. Zhang, Zhu



## EMERITUS

Bates, Draper, Johnson, Nordheim, Wardrop, and Doksum (retired)

## TEACHING STAFF

Bean, Fischer, Gillett, Keuler, Li, Xia, Yang

## ADMINISTRATIVE STAFF

Brinkerhoff (curricular coordinator), Runyan (department administrator)

## IT STAFF

Beebe, Brabender, Cammilleri (director)

## STUDENT SERVICES COORDINATOR

Nguyen

## ZOOLOGY

### RESEARCH AND EDUCATION

With 22 faculty members and 14 affiliated faculty members from campus, research and education in the Department of Zoology spans all levels of biological organization (from the molecular level to whole ecosystems and regions), considers a diverse range of taxa (microbes, plants, animals) and systems (terrestrial, aquatic), and addresses a wide array of basic and applied research questions. The Department of Zoology is committed to providing the best training and education in the field of biology for UW–Madison undergraduate and graduate students.

### MAJORS

As one of the largest departments in the College of Letters & Science, the Department of Zoology is home to the zoology, molecular biology, and newly formed neurobiology majors. Nearly 2500 students enroll in the introductory biology courses (BIOLOGY/ZOOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory; BOTANY/BIOLOGY/ZOOLOGY 151 Introductory Biology/ZOOLOGY 153 Introductory Biology 153 and ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology), and another 1000 students enroll in a variety of courses in the field of biology.

### DEGREES/MAJORS/CERTIFICATES

- Biology, B.A. (L&S) (p. 1113)
- Biology, B.S. (L&S) (p. 1123)
- Molecular Biology, B.A. (p. 1133)
- Molecular Biology, B.S. (p. 1137)
- Neurobiology, B.A. (p. 1141)
- Neurobiology, B.S. (p. 1147)
- Zoology, B.A. (p. 1152)
- Zoology, B.S. (p. 1157)

## PEOPLE

### FACULTY

Professors Hardin (chair, jdhardin@wisc.edu), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Ritters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

## BIOLOGY, B.A. (L&S)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain preprofessional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists; and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Letters & Science and the College of Agricultural and Life Sciences.

### HOW TO GET IN

Students interested in declaring the biology major should set up an appointment to speak with biology academic advisor. Information can be found at advising (<http://biologymajor.wisc.edu/advising>).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Requirements Detail**

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

### REQUIREMENTS FOR THE MAJOR

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must declare the major, complete the common requirements below, and complete the requirements for one of the named options or "no option."

Students must complete a minimum of 31 credits from Introductory Biology, Foundation, Intermediate/Advanced, Seminar (options only) and additional lab/research courses.

### COMMON MAJOR REQUIREMENTS MATHEMATICS AND STATISTICS

Code	Title	Credits
Select one of the following:		5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following: <sup>1</sup>		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

<sup>1</sup> Students completing the evolutionary biology option are required to complete either STAT 301 Introduction to Statistical Methods or STAT 371 Introductory Applied Statistics for the Life Sciences.

### CHEMISTRY

Code	Title	Credits
General Chemistry		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
Organic Chemistry		
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3

## PHYSICS

Code	Title	Credits
1st semester physics; select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
2nd semester physics, select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	

## INTRODUCTORY BIOLOGY

Code	Title	Credits
Select one of the following options: <sup>1</sup>		10-16
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Organismal Biology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

### Foundational Course<sup>2</sup>

Select one of the following:		3
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology <sup>3</sup>	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
GENETICS 466	Principles of Genetics	
GENETICS 468	General Genetics 2	
MICROBIO 470	Microbial Genetics & Molecular Machines	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 508	General Biochemistry II	

<sup>1</sup> For AP Biology policy, as it applies to introductory biology in the biology major, see this link (<http://biologymajor.wisc.edu/advising/advisor-resources/ap-ib-biology-policy>).

<sup>2</sup> Does not count toward intermediate/advanced courses. Students completing the evolutionary biology option must complete either GENETICS 466 Principles of Genetics or GENETICS 468 General Genetics 2 to fulfill the Foundation requirement. Students completing

the plant biology option are **not** allowed to take MICROBIO 470 Microbial Genetics & Molecular Machines to fulfill the Foundation requirement.

<sup>3</sup> Students may use BIOCORE 381 Evolution, Ecology, and Genetics and BIOCORE 383 Cellular Biology to contribute to introductory biology and satisfy foundation.

## ADDITIONAL LAB OR FIELD RESEARCH

Select one of the following options:

1. Take an additional lab or field instruction from categories A–E in the Intermediate/Advanced course lists (p. 1118).
2. Complete a directed study in a biological science discipline.<sup>1</sup>
3. Complete a thesis in biological science.<sup>1</sup>

<sup>1</sup> Must complete Introductory Biology **prior** to enrolling in either a directed study or thesis. Select an appropriate course in consultation with advisor.

## OPTIONS IN THE MAJOR

In addition to the common requirements, students must complete one of the options below. A minimum of 13 intermediate/advanced credits from the lists provided are required, which must include **one approved lab course**. Approved lab courses are indicated by footnote.

- Biology Major–No Option (p. 1115)
- Evolutionary Biology Option (p. 1116)
- Neurobiology Option (p. 1116)<sup>1</sup>
- Plant Biology Option (p. 1117)

<sup>1</sup> **Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

Students who have declared the biology major–neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

## BIOLOGY MAJOR–NO OPTION INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below.

Select one course from categories C or D below.

Select one course from category E or from an unused category above.

- A. Cellular and Subcellular Biology** (p. 1118)  
**B. Organismal Biology** (p. 1119)  
**C. Ecology** (p. 1120)  
**D. Evolution and Systematics** (p. 1121)  
**E. Applied Biology, Agriculture and Natural Resources** (p. 1121)

## EVOLUTIONARY BIOLOGY OPTION INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must take ANTHRO/BOTANY/ZOOLOGY 410 Evolutionary Biology. In addition, select one course from categories A or B below. Select one course from category C. Select one course from category D. Additional courses can be taken from "A–E" to satisfy the lab and/or 31 credit requirement.

- A. Cellular and Subcellular Biology** (p. 1118)  
**B. Organismal Biology** (p. 1119)  
**C. Ecology** (p. 1120)  
**D. Evolution and Systematics** (p. 1121)  
**E. Applied Biology, Agriculture and Natural Resources** (p. 1121)  
**SEMINAR**

Code	Title	Credits
	Undergraduate Evolution Seminar (1 cr minimum)	
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1

## NEUROBIOLOGY OPTION

**Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

Students who have declared the biology major–neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

## INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must complete 1. ZOOLOGY/PSYCH 523 Neurobiology and 2. either ZOOLOGY/NTP/PHYSIOL/PSYCH 524 Neurobiology II: An Introduction to the Brain and Behavior or PSYCH 454 Behavioral Neuroscience.

In addition, select one course from category A. Select one course from category B. Select one course from categories C or D below. Additional courses can be taken from "A–F" to satisfy the lab and/or 31-credit requirement.

## A. Cellular and Molecular Neurobiology

Code	Title	Credits
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course <sup>1</sup>	4
NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	4
NTP/NEURODPT/ PHYSIOL/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NTP/PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	3
NTP/ZOOLOGY 635	Neurobiology of Disease	2
NTP 655	Modeling Neurodevelopmental Disease	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
PSYCH 601	Current Topics in Psychology (Epigenetics & the Brain)	3
PSYCH 601	Current Topics in Psychology (Neuropharmacology)	3
ZOOLOGY 400	Topics in Biology <sup>2</sup>	1-3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY/NTP 635	Neurobiology of Disease	2

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: General Molecular Biology, offered spring 2016 and spring 2017

## B. Systems Neurobiology

Code	Title	Credits
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
CS&D 210	Neural Basis of Communication	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
ED PSYCH 326	Mind, Brain and Education	3
KINES 531	Neural Control of Movement	3
KINES 721	Neural Basis for Movement	3
NTP/ZOOLOGY 620	Neuroethology Seminar	2
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3
PSYCH 406	Psychology of Perception	3-4

PSYCH 601	Current Topics in Psychology (Cognition & Emotion: Cognitive Affective Neuroscience)	3
PSYCH 601	Current Topics in Psychology (Neuroeconomics)	3
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)	3
PSYCH 414	Cognitive Psychology	3
PSYCH 504	Affective Neuroscience	4

<sup>1</sup> Courses also approved for lab credit

### C. Ecology (p. 1120)

### D. Evolution and Systematics (p. 1121)

### E. Applied Biology, Agriculture and Natural Resources (p. 1121)

### F. Other Lab Courses

Code	Title	Credits
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics <sup>1</sup>	2-3
DY SCI 305	Lactation Physiology <sup>1</sup>	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
KINES 314	Physiology of Exercise <sup>1</sup>	4
KINES 338	Human Anatomy Laboratory <sup>1</sup>	2
GENETICS 545	Genetics Laboratory <sup>1</sup>	2
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2
MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory <sup>1</sup>	2

PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
PHYSIOL 335	Physiology <sup>1</sup>	5
PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

<sup>1</sup> Courses also approved for lab credit

### SEMINAR

Code	Title	Credits
	Undergraduate Neurobiology Seminar	
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

## PLANT BIOLOGY OPTION

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below. Select one course from categories C or D below. Select one course from category E or from an unused category above.

#### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3

<sup>1</sup> Courses also approved for lab credit

#### B. Organismal Biology

Code	Title	Credits
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4

BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

<sup>1</sup> Courses also approved for lab credit

### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

<sup>1</sup> Courses also approved for lab credit

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
GENETICS 468	General Genetics 2	3

<sup>1</sup> Courses also approved for lab credit

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3

AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4
BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Colloquium in Organic Agriculture	1
HORT 376	Tropical Horticultural Systems	1
HORT 378	Tropical Horticultural Systems International Field Study	2
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

### SEMINAR

Code	Title	Credits
Undergraduate Plant Science Seminar (1 cr minimum)		
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## INTERMEDIATE/ADVANCED COURSE LISTS

The course lists below are shared between two or more options in the major. See the option requirements (above) regarding the number of courses needed from each list or set of lists.

### A. Cellular and Subcellular Biology (Biology Major–No Option; Evolutionary Biology Option)

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3

BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course <sup>1</sup>	4
AN SCI/DY SCI 362	Veterinary Genetics	2
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	2
BIOCHEM/PHMCOL- M/ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3
BMOLCHEM 314	Introduction to Human Biochemistry	3
BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
DY SCI/AN SCI 362	Veterinary Genetics	2
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>2</sup>	1-3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3

MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory <sup>1</sup>	2
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
M M & I 341	Immunology	3
NEURODPT/ NTP/PHYSIOL/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	4
NTP/PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	3
NTP/ZOOLOGY 635	Neurobiology of Disease	2
NTP 655	Modeling Neurodevelopmental Disease	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
PHYSIOL 533	Molecular Physiology	2
PSYCH 601	Current Topics in Psychology	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Developmental Genetics for Conservation

## B. Organismal Biology (Biology Major—No Option; Evolutionary Biology Option)

Code	Title	Credits
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3

AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3	ONCOLOGY 401	Introduction to Experimental Oncology	2
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3	PATH 404	Pathophysiologic Principles of Human Diseases	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2	PHYSIOL 335	Physiology <sup>1</sup>	5
BOTANY 300	Plant Anatomy <sup>1</sup>	4	PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
BOTANY 330	Algae <sup>1</sup>	3	PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4	PSYCH 406	Psychology of Perception	3-4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2	PSYCH 601	Current Topics in Psychology	3
BOTANY 500	Plant Physiology <sup>1</sup>	3-4	PSYCH 414	Cognitive Psychology	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3	PSYCH 454	Behavioral Neuroscience	3
DY SCI 305	Lactation Physiology <sup>1</sup>	3	PSYCH 556	Hormones and Behavior	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4	ZOOLOGY 303	Aquatic Invertebrate Biology	3
ENTOM 321	Physiology of Insects	3	ZOOLOGY 400	Topics in Biology (Mammalogy)	1-3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4	ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
F&W ECOL 401	Physiological Animal Ecology	3	ZOOLOGY 603	Endocrinology	3-4
GENETICS 545	Genetics Laboratory <sup>1</sup>	2	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
GENETICS/ MD GENET 565	Human Genetics	3	ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3			
KINES 314	Physiology of Exercise <sup>1</sup>	4	<sup>1</sup> Courses also approved for lab credit		
KINES 337	Human Anatomy	3	<b>C. Ecology (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)</b>		
KINES 338	Human Anatomy Laboratory <sup>1</sup>	2	<b>Code</b>	<b>Title</b>	<b>Credits</b>
KINES 721	Neural Basis for Movement	3	AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
MICROBIO 303	Biology of Microorganisms	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
MICROBIO 330	Host-Parasite Interactions	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2	BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
MICROBIO 526	Physiology of Microorganisms	3	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
M M & I 301	Pathogenic Bacteriology	2	BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3	BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
M M & I 410	Medical Mycology	2	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
NTP/PHYSIOL/ PSYCH/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
NTP/ZOOLOGY 620	Neuroethology Seminar	2	ENTOM 450	Basic and Applied Insect Ecology	3
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3	ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3			
NUTR SCI 431	Nutrition in the Life Span	3			
NUTR SCI 631	Clinical Nutrition	4			
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3			



ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2	PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3	PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language	3
F&W ECOL 379	Principles of Wildlife Management	3	ZOOLOGY 300	Invertebrate Biology and Evolution	3
F&W ECOL 550	Forest Ecology	3	ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	ZOOLOGY 425	Behavioral Ecology	3
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3			
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4			
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3			
ZOOLOGY 504	Modeling Animal Landscapes	3-5			
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3			
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2			

<sup>1</sup> Courses also approved for lab credit

#### D. Evolution and Systematics (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 658	Ecological Models of Behavior	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
PSYCH 449	Animal Behavior	3

<sup>1</sup> Courses also approved for lab credit

#### E. Applied Biology, Agriculture and Natural Resources (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BIOLOGY/ GENETICS 522	Evolution Seminar Series-Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 318	Principles of Wildlife Ecology	3

F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Colloquium in Organic Agriculture	1
HORT 376	Tropical Horticultural Systems	1
HORT 378	Tropical Horticultural Systems International Field Study	2
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
MEDICINE/ M&ENVTOX/ ONCOLOGY/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in the major, taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Once students have declared the biology major and before enrolling in the Senior Honors Thesis, they may apply to pursue Honors in the Major. In addition to completing and submitting the Honors in the Major Declaration Form, the student must produce a two- to three-page, double-spaced thesis proposal that briefly introduces the biological problem and then describes the line of experimentation that is proposed for the thesis work. The student and faculty mentor must sign the proposal before it is submitted to the Biology Major Office.

## HONORS IN THE BIOLOGY MAJOR REQUIREMENTS <sup>1</sup>

To earn a B.A. or B.S. with Honors in the Major in Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 university GPA
- Earn a 3.300 GPA in the major/subject
- Complete 13 credits of Foundation, and/or intermediate/advanced courses for honors.
- Complete an approved two-semester Senior Honors Thesis for a total of 6 credits.

<sup>1</sup> Plant biology option must choose from intermediate/advanced courses listed under the plant biology option and should consult with their advisor about the Senior Thesis options.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will know and understand core concepts that unify the breadth of biological sciences:
  - a. Evolution - The diversity of life evolved over time by processes of mutation, selection, and genetic change.
  - b. Structure and Function - Basic units of structure define the function of all living things.

- c. Information flow, exchange, and storage - The growth and behavior of organisms are activated through the expression of genetic information in context.
  - d. Pathways for transformations of energy and matter - Biological systems grow and change by processes based upon chemical transformation pathways and are governed by the laws of thermodynamics.
  - e. Systems - Living systems are interconnected and interacting.
2. Graduates will be able to demonstrate practical skills of a professional biologist:
- a. Problem#solving by engaging the process of science:
    - i. Developing hypotheses and aligning appropriate methodologies.
    - ii. Using biological knowledge/concepts to solve problems.
    - iii. Integrating disparate information.
  - b. Written and verbal proficiency.
  - c. Laboratory skills.
  - d. Quantitative analysis skills.
  - e. Teamwork skills.
3. Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<http://advising.wisc.edu/content/expectations-about-advising>).

In the biology major, students are assigned to an adviser according to last name. Please visit us here (<http://biologymajor.wisc.edu/advising>) to schedule an advising appointment.

### CAREERS

The biology major encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the Liberal Arts? (<http://ls.wisc.edu/about/why-liberal-arts>)

- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner.
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Harris-Johnson, Kelley, Program Manager  
 Asen, Brian  
 Courtenay, Todd  
 Haas-Gallo, Erica  
 Smith, Mary

### BIOLOGY MAJOR ADMINISTRATION

Fernandez, Donna, L&S Co-Chair  
 Wassarman, Karen, CALS Co-Chair  
 Perna, Nicole, Evolutionary Biology Option Representative  
 Johnson, Steven M., Neurobiology Option Representative  
 Goldman, Irwin, Plant Biology Option Representative  
 Blair, Seth  
 Gilroy, Simon  
 Boekhoff-Falk, Grace  
 Harris, Michelle  
 Rouse, Doug  
 Kurtz, Robin, ex-officio  
 Thoma, Sharon, ex-officio  
 Harris-Johnson, Kelley, ex-officio

## BIOLOGY, B.S. (L&S)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain preprofessional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists; and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Letters & Science and the College of Agricultural and Life Sciences.

## HOW TO GET IN

Students interested in declaring the biology major should set up an appointment to speak with biology academic advisor. Information can be found at advising (<http://biologymajor.wisc.edu/advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

##### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>

Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

### REQUIREMENTS FOR THE MAJOR

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must declare the major, complete the common requirements below, and complete the requirements for one of the named options or "no option."

Students must complete a minimum of 31 credits from Introductory Biology, Foundation, Intermediate/Advanced, Seminar (options only) and additional lab/research courses.

### COMMON MAJOR REQUIREMENTS MATHEMATICS AND STATISTICS

Code	Title	Credits
Select one of the following:		5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following: <sup>1</sup>		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

<sup>1</sup> Students completing the evolutionary biology option are required to complete either STAT 301 Introduction to Statistical Methods or STAT 371 Introductory Applied Statistics for the Life Sciences.

### CHEMISTRY

Code	Title	Credits
General Chemistry		
Select one of the following:		5-9

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
Organic Chemistry		
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3

## PHYSICS

Code	Title	Credits
1st semester physics; select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
2nd semester physics, select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	

## INTRODUCTORY BIOLOGY

Code	Title	Credits
Select one of the following options: <sup>1</sup>		10-16
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Organismal Biology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

### Foundational Course<sup>2</sup>

Select one of the following:		3
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology <sup>3</sup>	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
GENETICS 466	Principles of Genetics	
GENETICS 468	General Genetics 2	
MICROBIO 470	Microbial Genetics & Molecular Machines	
BIOCHEM 501	Introduction to Biochemistry	

BIOCHEM 508 General Biochemistry II

- <sup>1</sup> For AP Biology policy, as it applies to introductory biology in the biology major, see this link (<http://biologymajor.wisc.edu/advising/advisor-resources/ap-ib-biology-policy>).
- <sup>2</sup> Does not count toward intermediate/advanced courses. Students completing the evolutionary biology option must complete either GENETICS 466 Principles of Genetics or GENETICS 468 General Genetics 2 to fulfill the Foundation requirement. Students completing the plant biology option are **not** allowed to take MICROBIO 470 Microbial Genetics & Molecular Machines to fulfill the Foundation requirement.
- <sup>3</sup> Students may use BIOCORE 381 Evolution, Ecology, and Genetics and BIOCORE 383 Cellular Biology to contribute to introductory biology and satisfy foundation.

## ADDITIONAL LAB OR FIELD RESEARCH

Select one of the following options:

1. Take an additional lab or field instruction from categories A–E in the Intermediate/Advanced course lists (p. 1128).
2. Complete a directed study in a biological science discipline.<sup>1</sup>
3. Complete a thesis in biological science.<sup>1</sup>

- <sup>1</sup> Must complete Introductory Biology **prior** to enrolling in either a directed study or thesis. Select an appropriate course in consultation with advisor.

## OPTIONS IN THE MAJOR

In addition to the common requirements, students must complete one of the options below. A minimum of 13 intermediate/advanced credits from the lists provided are required, which must include **one approved lab course**. Approved lab courses are indicated by footnote.

- Biology Major–No Option (p. 1125)
- Evolutionary Biology Option (p. 1126)
- Neurobiology Option (p. 1126)<sup>1</sup>
- Plant Biology Option (p. 1127)

- <sup>1</sup> **Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

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Students who have declared the biology major–neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

## BIOLOGY MAJOR–NO OPTION INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below.  
Select one course from categories C or D below.

Select one course from category E or from an unused category above.

- A. Cellular and Subcellular Biology** (p. 1128)  
**B. Organismal Biology** (p. 1129)  
**C. Ecology** (p. 1130)  
**D. Evolution and Systematics** (p. 1131)  
**E. Applied Biology, Agriculture and Natural Resources** (p. 1131)

## EVOLUTIONARY BIOLOGY OPTION

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must take ANTHRO/BOTANY/ZOOLOGY 410 Evolutionary Biology. In addition, select one course from categories A or B below. Select one course from category C. Select one course from category D. Additional courses can be taken from "A–E" to satisfy the lab and/or 31 credit requirement.

- A. Cellular and Subcellular Biology** (p. 1128)  
**B. Organismal Biology** (p. 1129)  
**C. Ecology** (p. 1130)  
**D. Evolution and Systematics** (p. 1131)  
**E. Applied Biology, Agriculture and Natural Resources** (p. 1131)

### SEMINAR

Code	Title	Credits
Undergraduate Evolution Seminar (1 cr minimum)		
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1

## NEUROBIOLOGY OPTION

**Note: Admission to the biology major with a neurobiology option is suspended.** The College of Letters & Science now offers a *neurobiology major*. Students already declared for the biology major with a neurobiology option are allowed to continue in the program; they must complete the program no later than August 2019.

Students who have declared the biology major–neurobiology option may cancel the major and declare the new neurobiology major, provided it does not extend their time to degree. Students should consult with an advisor in the new neurobiology major to determine which program is best for them.

Students may not double-major in any biology major option and the neurobiology major.

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Students must complete 1. ZOOLOGY/PSYCH 523 Neurobiology and 2. either ZOOLOGY/NTP/PHYSIOL/PSYCH 524 Neurobiology II: An Introduction to the Brain and Behavior or PSYCH 454 Behavioral Neuroscience.

In addition, select one course from category A. Select one course from category B. Select one course from categories C or D below. Additional courses can be taken from "A–F" to satisfy the lab and/or 31-credit requirement.

### A. Cellular and Molecular Neurobiology

Code	Title	Credits
ANATOMY/NTP/ PHYSIOL 625	Brain Cell Cultures and Imaging: A Lab Course <sup>1</sup>	4
NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	4
NTP/NEURODPT/ PHYSIOL/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NTP/PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	3
NTP/ZOOLOGY 635	Neurobiology of Disease	2
NTP 655	Modeling Neurodevelopmental Disease	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
PSYCH 601	Current Topics in Psychology (Epigenetics & the Brain)	3
PSYCH 601	Current Topics in Psychology (Neuropharmacology)	3
ZOOLOGY 400	Topics in Biology <sup>2</sup>	1-3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY/NTP 635	Neurobiology of Disease	2

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: General Molecular Biology, offered spring 2016 and spring 2017

### B. Systems Neurobiology

Code	Title	Credits
ANATOMY/ NTP/PHMCOL- M/PHYSIOL/ PSYCH 611	Systems Neuroscience	4
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	3
CS&D 210	Neural Basis of Communication	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
ED PSYCH 326	Mind, Brain and Education	3
KINES 531	Neural Control of Movement	3
KINES 721	Neural Basis for Movement	3
NTP/ZOOLOGY 620	Neuroethology Seminar	2
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3
PSYCH 406	Psychology of Perception	3-4

PSYCH 601	Current Topics in Psychology (Cognition & Emotion: Cognitive Affective Neuroscience)	3
PSYCH 601	Current Topics in Psychology (Neuroeconomics)	3
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)	3
PSYCH 414	Cognitive Psychology	3
PSYCH 504	Affective Neuroscience	4

<sup>1</sup> Courses also approved for lab credit

### C. Ecology (p. 1130)

### D. Evolution and Systematics (p. 1131)

### E. Applied Biology, Agriculture and Natural Resources (p. 1131)

### F. Other Lab Courses

Code	Title	Credits
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BIOCHEM 551	Biochemical Methods <sup>1</sup>	4
BMOLCHEM 504	Human Biochemistry Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics <sup>1</sup>	2-3
DY SCI 305	Lactation Physiology <sup>1</sup>	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
KINES 314	Physiology of Exercise <sup>1</sup>	4
KINES 338	Human Anatomy Laboratory <sup>1</sup>	2
GENETICS 545	Genetics Laboratory <sup>1</sup>	2
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2
MICROBIO 551	Physiological Diversity of Procaroytes Laboratory <sup>1</sup>	2

PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
PHYSIOL 335	Physiology <sup>1</sup>	5
PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

<sup>1</sup> Courses also approved for lab credit

### SEMINAR

Code	Title	Credits
	Undergraduate Neurobiology Seminar	
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

## PLANT BIOLOGY OPTION

### INTERMEDIATE/ADVANCED COURSES

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote.

Select one course from categories A or B below. Select one course from categories C or D below. Select one course from category E or from an unused category above.

#### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering <sup>1</sup>	4
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3

<sup>1</sup> Courses also approved for lab credit

#### B. Organismal Biology

Code	Title	Credits
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4

BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

<sup>1</sup> Courses also approved for lab credit

### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

<sup>1</sup> Courses also approved for lab credit

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
GENETICS 468	General Genetics 2	3

<sup>1</sup> Courses also approved for lab credit

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3

AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOLOGY/ GENETICS 522	Evolution Seminar Series- Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4
BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Colloquium in Organic Agriculture	1
HORT 376	Tropical Horticultural Systems	1
HORT 378	Tropical Horticultural Systems International Field Study	2
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

### SEMINAR

Code	Title	Credits
Undergraduate Plant Science Seminar (1 cr minimum)		
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## INTERMEDIATE/ADVANCED COURSE LISTS

The course lists below are shared between two or more options in the major. See the option requirements (above) regarding the number of courses needed from each list or set of lists.

### A. Cellular and Subcellular Biology (Biology Major–No Option; Evolutionary Biology Option)

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3





AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3	ONCOLOGY 401	Introduction to Experimental Oncology	2
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3	PATH 404	Pathophysiologic Principles of Human Diseases	3
BIOCORE 486	Organismal Biology Laboratory <sup>1</sup>	2	PHYSIOL 335	Physiology <sup>1</sup>	5
BOTANY 300	Plant Anatomy <sup>1</sup>	4	PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	5
BOTANY 330	Algae <sup>1</sup>	3	PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4	PSYCH 406	Psychology of Perception	3-4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2	PSYCH 601	Current Topics in Psychology	3
BOTANY 500	Plant Physiology <sup>1</sup>	3-4	PSYCH 414	Cognitive Psychology	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3	PSYCH 454	Behavioral Neuroscience	3
DY SCI 305	Lactation Physiology <sup>1</sup>	3	PSYCH 556	Hormones and Behavior	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4	ZOOLOGY 303	Aquatic Invertebrate Biology	3
ENTOM 321	Physiology of Insects	3	ZOOLOGY 400	Topics in Biology (Mammalogy)	1-3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4	ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
F&W ECOL 401	Physiological Animal Ecology	3	ZOOLOGY 603	Endocrinology	3-4
GENETICS 545	Genetics Laboratory <sup>1</sup>	2	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
GENETICS/ MD GENET 565	Human Genetics	3	ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3			
KINES 314	Physiology of Exercise <sup>1</sup>	4	<sup>1</sup> Courses also approved for lab credit		
KINES 337	Human Anatomy	3	<b>C. Ecology (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)</b>		
KINES 338	Human Anatomy Laboratory <sup>1</sup>	2	<b>Code</b>	<b>Title</b>	<b>Credits</b>
KINES 721	Neural Basis for Movement	3	AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
MICROBIO 303	Biology of Microorganisms	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
MICROBIO 330	Host-Parasite Interactions	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
MICROBIO/ BIOLOGY 525	Advanced Biological Laboratory Practices: A Research Experience <sup>1</sup>	2	BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
MICROBIO 526	Physiology of Microorganisms	3	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
M M & I 301	Pathogenic Bacteriology	2	BOTANY/ ZOOLOGY 459	Ecological Techniques for Field Monitoring	1-2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3	BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
M M & I 410	Medical Mycology	2	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
NTP/PHYSIOL/ PSYCH/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
NTP/ZOOLOGY 620	Neuroethology Seminar	2	ENTOM 450	Basic and Applied Insect Ecology	3
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	1-3	ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3			
NUTR SCI 431	Nutrition in the Life Span	3			
NUTR SCI 631	Clinical Nutrition	4			
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements	2-3			

ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2	PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3	PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language	3
F&W ECOL 379	Principles of Wildlife Management	3	ZOOLOGY 300	Invertebrate Biology and Evolution	3
F&W ECOL 550	Forest Ecology	3	ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	ZOOLOGY 425	Behavioral Ecology	3
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3			
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4			
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3			
ZOOLOGY 504	Modeling Animal Landscapes	3-5			
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3			
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2			

<sup>1</sup> Courses also approved for lab credit

#### D. Evolution and Systematics (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
ANTHRO 658	Ecological Models of Behavior	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
BOTANY/GENETICS/ MD GENET 629	Evolutionary Genetics	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	2
PSYCH 449	Animal Behavior	3

<sup>1</sup> Courses also approved for lab credit

#### E. Applied Biology, Agriculture and Natural Resources (Biology Major–No Option; Evolutionary Biology Option; Neurobiology Option)

Code	Title	Credits
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Cropping Systems of the Tropics	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AMER IND/ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 313	Animal Feeds and Diet Formulation	1
AN SCI/DY SCI 320	Animal Health and Disease Management	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BIOLOGY/ GENETICS 522	Evolution Seminar Series-Undergraduate	1
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 318	Principles of Wildlife Ecology	3

F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics <sup>1,2</sup>	1-3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Colloquium in Organic Agriculture	1
HORT 376	Tropical Horticultural Systems	1
HORT 378	Tropical Horticultural Systems International Field Study	2
HORT/PATH-BIO 500	Molecular Biology Techniques <sup>1</sup>	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
MEDICINE/ M&ENVTOX/ ONCOLOGY/PATH/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

<sup>1</sup> Courses also approved for lab credit

<sup>2</sup> Approved topic: Evolutionary Systems Biology

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in the major, taken on the UW–Madison campus

<sup>1</sup> Courses with intermediate or advanced level are considered upper level in this major.

## HONORS IN THE MAJOR

Once students have declared the biology major and before enrolling in the Senior Honors Thesis, they may apply to pursue Honors in the Major. In addition to completing and submitting the Honors in the Major Declaration Form, the student must produce a two- to three-page, double-spaced thesis proposal that briefly introduces the biological problem and then describes the line of experimentation that is proposed for the thesis work. The student and faculty mentor must sign the proposal before it is submitted to the Biology Major Office.

## HONORS IN THE BIOLOGY MAJOR REQUIREMENTS <sup>1</sup>

To earn a B.A. or B.S. with Honors in the Major in Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 university GPA
- Earn a 3.300 GPA in the major/subject
- Complete 13 credits of Foundation, and/or intermediate/advanced courses for honors.
- Complete an approved two-semester Senior Honors Thesis for a total of 6 credits.

<sup>1</sup> Plant biology option must choose from intermediate/advanced courses listed under the plant biology option and should consult with their advisor about the Senior Thesis options.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will know and understand core concepts that unify the breadth of biological sciences:
  - a. Evolution - The diversity of life evolved over time by processes of mutation, selection, and genetic change.
  - b. Structure and Function - Basic units of structure define the function of all living things.

- c. Information flow, exchange, and storage - The growth and behavior of organisms are activated through the expression of genetic information in context.
  - d. Pathways for transformations of energy and matter - Biological systems grow and change by processes based upon chemical transformation pathways and are governed by the laws of thermodynamics.
  - e. Systems - Living systems are interconnected and interacting.
2. Graduates will be able to demonstrate practical skills of a professional biologist:
- a. Problem#solving by engaging the process of science:
    - i. Developing hypotheses and aligning appropriate methodologies.
    - ii. Using biological knowledge/concepts to solve problems.
    - iii. Integrating disparate information.
  - b. Written and verbal proficiency.
  - c. Laboratory skills.
  - d. Quantitative analysis skills.
  - e. Teamwork skills.
3. Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<http://advising.wisc.edu/content/expectations-about-advising>).

In the biology major, students are assigned to an adviser according to last name. Please visit us here (<http://biologymajor.wisc.edu/advising>) to schedule an advising appointment.

### CAREERS

The biology major encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the Liberal Arts? (<http://ls.wisc.edu/about/why-liberal-arts>)

- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner.
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Harris-Johnson, Kelley, Program Manager  
 Asen, Brian  
 Courtenay, Todd  
 Haas-Gallo, Erica  
 Smith, Mary

### BIOLOGY MAJOR ADMINISTRATION

Fernandez, Donna, L&S Co-Chair  
 Wassarman, Karen, CALS Co-Chair  
 Perna, Nicole, Evolutionary Biology Option Representative  
 Johnson, Steven M., Neurobiology Option Representative  
 Goldman, Irwin, Plant Biology Option Representative  
 Blair, Seth  
 Gilroy, Simon  
 Boekhoff-Falk, Grace  
 Harris, Michelle  
 Rouse, Doug  
 Kurtz, Robin, ex-officio  
 Thoma, Sharon, ex-officio  
 Harris-Johnson, Kelley, ex-officio

## MOLECULAR BIOLOGY, B.A.

### ABOUT THE MAJOR

Molecular biology is the basic science that seeks an understanding of biological processes in terms of the properties and functions of the molecules that make up living cells. The scope of questions addressed in molecular biology ranges from evolution to development to the regulation of gene expression. A career in molecular biology requires a strong background in biology as well as a solid foundation in chemistry, mathematics, and physics.

The molecular biology major has been designed primarily for three groups of students:

- a. those who plan to enter a research career in molecular biology or related areas such as biochemistry, genetics, oncology, microbiology, cell biology or developmental biology;
- b. pre-professional students who plan to enter either a research or clinical career in medicine, or allied health fields;
- c. students who plan to teach biology at the college or secondary-school levels.

Students with other interests are also welcome, of course. Career opportunities for students with an undergraduate degree in molecular biology are amazingly diverse. Graduates of the program have gone into patent law, science journalism, forensics, philosophy, nutrition, genetic

counseling, veterinary medicine, anthropology, archeology, marine biology, theology, and much more ([http://molecularbio.ls.wisc.edu/documents/What\\_can\\_I\\_do\\_with\\_a\\_MolBio\\_Major\\_.pdf](http://molecularbio.ls.wisc.edu/documents/What_can_I_do_with_a_MolBio_Major_.pdf)).

Major requirements have been set to assure a high degree of proficiency in the various areas specified while still allowing as much flexibility as possible for students to individualize their programs. For the undergraduate interested in life sciences, this major uniquely provides access to the extraordinary scope and strength of biology courses and laboratories on the UW–Madison campus. Each student in the major is assigned a faculty advisor, and it is hoped that students will take advantage of both the staff and faculty advising service available to make a judicious choice of courses, as well as to gain scholarly experience outside the classroom that will further their academic and career goals.

Students who wish to obtain further information about the program or to declare a molecular biology major should contact the student services coordinator. (<http://molecularbio.ls.wisc.edu/advising.htm>) Faculty advisors are assigned through the program office and are located in many related departments throughout campus. Molecular biology faculty advisors are especially competent to provide counsel regarding the major and career opportunities in molecular biology.

## UNDERGRADUATE RESEARCH

Undergraduate molecular biology students at UW–Madison are fortunate to have the opportunity to work with some of the world's leading researchers. Many opportunities for laboratory research experience are available on campus for undergraduate students and this type of experiences is strongly encouraged. Such an experience provides students the opportunity to apply what they're learning and compliment their knowledge with practical skills. Research experience is highly valued by employers, graduate programs, and professional schools. See the major website (<http://molecularbio.ls.wisc.edu/57.htm>) for more information on how to get involved in undergraduate research.

## HOW TO GET IN

To declare the molecular biology major, students must contact or make an appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBNbotSX.html?jsessionid=53F9D957BE6099BCF895E0A8487F3B94.primary>) with the molecular biology student services coordinator.

If students are not currently in the College of Letters & Science (L&S), you must transfer into L&S before declaring. However, students are welcome to meet with the molecular biology student services coordinator to discuss the major before transferring.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	• Complete the fourth unit of a foreign language; OR • Complete the third unit of a foreign language and the second unit of an additional foreign language  Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	• Humanities, 12 credits: 6 of the 12 credits must be in literature • Social Sciences, 12 credits • Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework	108 credits
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Depth of Intermediate/Advanced work	60 intermediate or advanced credits
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Major	Declare and complete at least one (1) major
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Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW-Madison 2.000 in intermediate/advanced coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Calculus 1</b>		
MATH 221 or MATH 211	Calculus and Analytic Geometry 1 Calculus	5
<b>Calculus 2 or Statistics—one course:</b>		3-5
MATH 222	Calculus and Analytic Geometry 2	
MATH 213	Calculus and Introduction to Differential Equations	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry—complete one option:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (by consent of instructor only)	
<b>Analytical Chemistry</b>		
CHEM 327 or CHEM 329	Fundamentals of Analytical Science Fundamentals of Analytical Science	4
<b>Organic Chemistry</b>		
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
<b>Physics—complete one option:</b>		
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
Total Credits		25-31

## GENERAL BIOLOGY

Code	Title	Credits
<b>Complete one option:</b>		10-16
<i>Option A:</i>		

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology
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GENETICS 466	Principles of Genetics
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*Option B (BIOCORE):*<sup>1</sup>

BIOCORE 381	Evolution, Ecology, and Genetics
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 383	Cellular Biology
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 485	Organismal Biology

<sup>1</sup> BIOCORE is an Honors program. Students may find more information here (<http://biocore.wisc.edu>).

## BIOCHEMISTRY AND MOLECULAR BIOLOGY

Code	Title	Credits
<b>Biochemistry</b>		3-6
BIOCHEM 501 or BIOCHEM 507	Introduction to Biochemistry General Biochemistry I	3
<b>Molecular Biology - 3 credits from:</b>		3
AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	
AGRONOMY/ HORT 340	Plant Cell Culture and Genetic Engineering	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS 620	Eukaryotic Molecular Biology	
GENETICS 545	Genetics Laboratory	
HORT/PATH- BIO 500	Molecular Biology Techniques	
HORT/ GENETICS 550	Molecular Approaches for Potential Crop Improvement	
<b>Advanced Courses - 6 credits from 2 areas:</b>		6
<i>Development</i>		
BOTANY 500	Plant Physiology	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY 555	Laboratory in Developmental Biology	
ZOOLOGY 625	Development of the Nervous System	
<i>Microbiology</i>		
BOTANY/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
MICROBIO 330	Host-Parasite Interactions	
MICROBIO/ SOIL SCI 425	Environmental Microbiology	

MICROBIO/PL PATH 622	Plant-Bacterial Interactions
MICROBIO/ ONCOLOGY/PL PATH 640	General Virology-Multiplication of Viruses
M M & I/ BIOCHEM 575	Biology of Viruses
<b>Genetics</b>	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology
GENETICS/ BOTANY/HORT 561	Introductory Cytogenetics
GENETICS/MD GENET 565	Human Genetics
GENETICS 566	Advanced Genetics
MICROBIO 470	Microbial Genetics & Molecular Machines
MICROBIO/ GENETICS 607	Advanced Microbial Genetics
<b>Cell Biology (Endocrinology, Neurobiology, Immunology)</b>	
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms
BIOCORE 587	Biological Interactions
MICROBIO/ M M & I/PATH- BIO 528	Immunology
M M & I 341	Immunology
ONCOLOGY 401	Introduction to Experimental Oncology
ONCOLOGY/ MICROBIO/ PL PATH 640	General Virology-Multiplication of Viruses
ZOOLOGY/ PSYCH 523	Neurobiology
ZOOLOGY 570	Cell Biology
<b>Biochemistry and Physical Chemistry</b>	
BIOCHEM 508	General Biochemistry II
BIOCHEM/NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition
BIOCHEM 550	Topics in Medical Biochemistry
BIOCHEM 551	Biochemical Methods
BIOCHEM/ BOTANY 621	Plant Biochemistry
CHEM 561	Physical Chemistry
CHEM 565	Biophysical Chemistry
PHYSIOL 533	Molecular Physiology
<b>Quantitative and Computational Sciences</b>	
B M I/COMP SCI 576	Introduction to Bioinformatics
BOTANY 563	Phylogenetic Analysis of Molecular Data
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization

F&W ECOL/HORT/ STAT 571	Statistical Methods for Bioscience I
F&W ECOL/HORT/ STAT 572	Statistical Methods for Bioscience II
STAT 333	Applied Regression Analysis
STAT/B M I 541	Introduction to Biostatistics
Total Credits	15-18

## LABORATORY/INDEPENDENT RESEARCH

2 credits from:

Code	Title	Credits
<b>Lab/Research courses:</b>		
HORT/PATH-BIO 500	Molecular Biology Techniques	
GENETICS 545	Genetics Laboratory	
BMOLCHEM 504	Human Biochemistry Laboratory	
MICROBIO 304	Biology of Microorganisms Laboratory	
BIOCHEM 551	Biochemical Methods	
ZOOLOGY 555	Laboratory in Developmental Biology	
<b>Thesis/Directed Study:</b> <sup>2</sup>		
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis	
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis	
MOL BIOL 699	Directed Studies in Molecular Biology	

<sup>2</sup> For assistance finding a directed lab or research experience and for information about scholarships, see the advisor for this program and/or consult the Undergraduate Research page (<http://www.molecularbio.ls.wisc.edu/57.htm>).

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all MOL BIOL and major courses

2.000 GPA on 15 upper-level major credits, taken in residence

15 credits in MOL BIOL, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Molecular Biology Major in consultation with the Molecular Biology undergraduate advisor.

## HONORS IN THE MOLECULAR BIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Molecular Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all MOL BIOL courses, and all courses accepted in the major
- Complete the Molecular Biology advanced course requirement utilizing the courses indicated with the <sup>3</sup> above, taken for Honors credit and with grades of B or better earned in each individual course



- Complete a two-semester Senior Honors Thesis in MOL BIOL 681 Senior Honors Thesis and MOL BIOL 682 Senior Honors Thesis, for a total of 6 credits
- Complete MOL BIOL 686 Senior Honors Seminar in Molecular Biology

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

graduation, as well as connecting students with important resources on campus.

## PEOPLE

Committee of Advisors: Ahmad (Dermatology), Amann (Zoology), Fabry (Pathology and Laboratory Medicine), Filutowicz (Bacteriology), Martin (Biochemistry), McMahon (Civil Engineering and Environmental Engineering), Schuler (Comparative Biosciences)

## MOLECULAR BIOLOGY, B.S.

### ABOUT THE MAJOR

Molecular biology is the basic science that seeks an understanding of biological processes in terms of the properties and functions of the molecules that make up living cells. The scope of questions addressed in molecular biology ranges from evolution to development to the regulation of gene expression. A career in molecular biology requires a strong background in biology as well as a solid foundation in chemistry, mathematics, and physics.

The molecular biology major has been designed primarily for three groups of students:

- those who plan to enter a research career in molecular biology or related areas such as biochemistry, genetics, oncology, microbiology, cell biology or developmental biology;
- pre-professional students who plan to enter either a research or clinical career in medicine, or allied health fields;
- students who plan to teach biology at the college or secondary-school levels.

Students with other interests are also welcome, of course. Career opportunities for students with an undergraduate degree in molecular biology are amazingly diverse. Graduates of the program have gone into patent law, science journalism, forensics, philosophy, nutrition, genetic counseling, veterinary medicine, anthropology, archeology, marine biology, theology, and much more ([http://molecularbio.ls.wisc.edu/documents/What\\_can\\_I\\_do\\_with\\_a\\_MolBio\\_Major\\_.pdf](http://molecularbio.ls.wisc.edu/documents/What_can_I_do_with_a_MolBio_Major_.pdf)).

Major requirements have been set to assure a high degree of proficiency in the various areas specified while still allowing as much flexibility as possible for students to individualize their programs. For the undergraduate interested in life sciences, this major uniquely provides access to the extraordinary scope and strength of biology courses and laboratories on the UW–Madison campus. Each student in the major is assigned a faculty advisor, and it is hoped that students will take advantage of both the staff and faculty advising service available to make a judicious choice of courses, as well as to gain scholarly experience outside the classroom that will further their academic and career goals.

Students who wish to obtain further information about the program or to declare a molecular biology major should contact the student services coordinator. (<http://molecularbio.ls.wisc.edu/advising.htm>) Faculty advisors are assigned through the program office and are located in many related departments throughout campus. Molecular biology faculty advisors are especially competent to provide counsel regarding the major and career opportunities in molecular biology.

## LEARNING OUTCOMES

1. Summarize the energetic and thermodynamic basis of life.
2. Define and explain the molecular basis of life and relationships between the structure and function of biological macromolecules.
3. Describe the nature of the cell and its role as the basic unit of life.
4. Understand the nature of the genetic material and its roles in inheritance, evolution, and cellular function.
5. Demonstrate comprehension of basic molecular biology laboratory techniques.
6. Utilize the scientific method to solve biological problems characteristic of today's society.
7. Understand the primary scientific literature and apply concepts from literature to draw conclusions about modern topics in the field.
8. Communicate scientific ideas in written and oral form.

## ADVISING AND CAREERS

Students in the major are assigned to a team of advisors composed of a faculty advisor and a the major's student services coordinator. See the major's advising page (<http://bacmajor.ls.wisc.edu/advising.htm>) for a list of advisors and for the student services coordinator information. The faculty advisor provides guidance specific to the molecular biology discipline through discussions about undergraduate experiences (i.e., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline, and also helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward

## UNDERGRADUATE RESEARCH

Undergraduate molecular biology students at UW–Madison are fortunate to have the opportunity to work with some of the world's leading researchers. Many opportunities for laboratory research experience are available on campus for undergraduate students and this type of experiences is strongly encouraged. Such an experience provides students the opportunity to apply what they're learning and compliment their knowledge with practical skills. Research experience is highly valued by employers, graduate programs, and professional schools. See the major website (<http://molecularbio.ls.wisc.edu/57.htm>) for more information on how to get involved in undergraduate research.

### HOW TO GET IN

To declare the molecular biology major, students must contact or make an appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBNbotSX.html?jsessionid=53F9D957BE6099BCF895E0A8487F3B94.primary>) with the molecular biology student services coordinator.

If students are not currently in the College of Letters & Science (L&S), you must transfer into L&S before declaring. However, students are welcome to meet with the molecular biology student services coordinator to discuss the major before transferring.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT Limit one each: COMP SCI, STAT
Foreign Language	Complete the third unit of a foreign language Note: A unit is one year of high school work or one semester/term of college work.
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science</li> </ul>
Liberal Arts and Science Coursework	108 credits
Depth of Intermediate/Advanced work	60 intermediate or advanced credits
Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall 30 credits in residence after the 90th credit
Minimum GPAs	2.000 in all coursework at UW–Madison 2.000 in intermediate/advanced coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

**Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.***

## REQUIREMENTS FOR THE MAJOR MATHEMATICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Calculus 1</b>		
MATH 221 or MATH 211	Calculus and Analytic Geometry 1 Calculus	5
<b>Calculus 2 or Statistics—one course:</b>		
MATH 222	Calculus and Analytic Geometry 2	3-5

MATH 213	Calculus and Introduction to Differential Equations	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry—complete one option:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (by consent of instructor only)	
<b>Analytical Chemistry</b>		
CHEM 327 or CHEM 329	Fundamentals of Analytical Science	4
<b>Organic Chemistry</b>		
CHEM 343	Introductory Organic Chemistry	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
<b>Physics—complete one option:</b>		
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
Total Credits		25-31

## GENERAL BIOLOGY

Code	Title	Credits
<b>Complete one option:</b>		10-16
<i>Option A:</i>		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
GENETICS 466	Principles of Genetics	
<i>Option B (BIOCORE):<sup>1</sup></i>		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Organismal Biology	

<sup>1</sup> BIOCORE is an Honors program. Students may find more information here (<http://biocore.wisc.edu>).

## BIOCHEMISTRY AND MOLECULAR BIOLOGY

Code	Title	Credits
<b>Biochemistry</b>		3-6
BIOCHEM 501 or BIOCHEM 507	Introduction to Biochemistry General Biochemistry I	3
<b>Molecular Biology - 3 credits from:</b>		3

AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	
AGRONOMY/ HORT 340	Plant Cell Culture and Genetic Engineering	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS 620	Eukaryotic Molecular Biology	
GENETICS 545	Genetics Laboratory	
HORT/PATH-BIO 500	Molecular Biology Techniques	
HORT/ GENETICS 550	Molecular Approaches for Potential Crop Improvement	
<b>Advanced Courses - 6 credits from 2 areas:</b>		6
<i>Development</i>		
BOTANY 500	Plant Physiology	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY 555	Laboratory in Developmental Biology	
ZOOLOGY 625	Development of the Nervous System	
<i>Microbiology</i>		
BOTANY/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
MICROBIO 330	Host-Parasite Interactions	
MICROBIO/ SOIL SCI 425	Environmental Microbiology	
MICROBIO/PL PATH 622	Plant-Bacterial Interactions	
MICROBIO/ ONCOLOGY/PL PATH 640	General Virology-Multiplication of Viruses	
M M & I/ BIOCHEM 575	Biology of Viruses	
<i>Genetics</i>		
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
GENETICS/ BOTANY/HORT 561	Introductory Cytogenetics	
GENETICS/MD GENET 565	Human Genetics	
GENETICS 566	Advanced Genetics	
MICROBIO 470	Microbial Genetics & Molecular Machines	
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	
<i>Cell Biology (Endocrinology, Neurobiology, Immunology)</i>		
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	
BIOCORE 587	Biological Interactions	

MICROBIO/ M M & I/PATH- BIO 528	Immunology
M M & I 341	Immunology
ONCOLOGY 401	Introduction to Experimental Oncology
ONCOLOGY/ MICROBIO/ PL PATH 640	General Virology-Multiplication of Viruses
ZOOLOGY/ PSYCH 523	Neurobiology
ZOOLOGY 570	Cell Biology
<i>Biochemistry and Physical Chemistry</i>	
BIOCHEM 508	General Biochemistry II
BIOCHEM/NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition
BIOCHEM 550	Topics in Medical Biochemistry
BIOCHEM 551	Biochemical Methods
BIOCHEM/ BOTANY 621	Plant Biochemistry
CHEM 561	Physical Chemistry
CHEM 565	Biophysical Chemistry
PHYSIOL 533	Molecular Physiology
<i>Quantitative and Computational Sciences</i>	
B M I/COMP SCI 576	Introduction to Bioinformatics
BOTANY 563	Phylogenetic Analysis of Molecular Data
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization
F&W ECOL/HORT/ STAT 571	Statistical Methods for Bioscience I
F&W ECOL/HORT/ STAT 572	Statistical Methods for Bioscience II
STAT 333	Applied Regression Analysis
STAT/B M I 541	Introduction to Biostatistics
Total Credits	15-18

## LABORATORY/INDEPENDENT RESEARCH

2 credits from:

Code	Title	Credits
<b>Lab/Research courses:</b>		
HORT/PATH-BIO 500	Molecular Biology Techniques	
GENETICS 545	Genetics Laboratory	
BMOLCHEM 504	Human Biochemistry Laboratory	
MICROBIO 304	Biology of Microorganisms Laboratory	
BIOCHEM 551	Biochemical Methods	
ZOOLOGY 555	Laboratory in Developmental Biology	
<b>Thesis/Directed Study:</b> <sup>2</sup>		
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis	

MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
MOL BIOL 699	Directed Studies in Molecular Biology

- <sup>2</sup> For assistance finding a directed lab or research experience and for information about scholarships, see the advisor for this program and/or consult the Undergraduate Research page (<http://www.molecularbio.ls.wisc.edu/57.htm>).

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all MOL BIOL and major courses

2.000 GPA on 15 upper-level major credits, taken in residence

15 credits in MOL BIOL, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Molecular Biology Major in consultation with the Molecular Biology undergraduate advisor.

## HONORS IN THE MOLECULAR BIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Molecular Biology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA for all MOL BIOL courses, and all courses accepted in the major
- Complete the Molecular Biology advanced course requirement utilizing the courses indicated with the <sup>3</sup> above, taken for Honors credit and with grades of B or better earned in each individual course
- Complete a two-semester Senior Honors Thesis in MOL BIOL 681 Senior Honors Thesis and MOL BIOL 682 Senior Honors Thesis, for a total of 6 credits
- Complete MOL BIOL 686 Senior Honors Seminar in Molecular Biology

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Summarize the energetic and thermodynamic basis of life.
2. Define and explain the molecular basis of life and relationships between the structure and function of biological macromolecules.
3. Describe the nature of the cell and its role as the basic unit of life.
4. Understand the nature of the genetic material and its roles in inheritance, evolution, and cellular function.
5. Demonstrate comprehension of basic molecular biology laboratory techniques.
6. Utilize the scientific method to solve biological problems characteristic of today's society.
7. Understand the primary scientific literature and apply concepts from literature to draw conclusions about modern topics in the field.
8. Communicate scientific ideas in written and oral form.

## ADVISING AND CAREERS

Students in the major are assigned to a team of advisors composed of a faculty advisor and a the major's student services coordinator. See the major's advising page (<http://bacmajor.ls.wisc.edu/advising.htm>) for a list of advisors and for the student services coordinator information. The faculty advisor provides guidance specific to the molecular biology discipline through discussions about undergraduate experiences (i.e., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline, and also helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward graduation, as well as connecting students with important resources on campus.

## PEOPLE

### FACULTY

Professors Hardin (chair, [jdhardin@wisc.edu](mailto:jdhardin@wisc.edu)), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Ritters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

Committee of Advisors: Ahmad (Dermatology), Amann (Zoology), Fabry (Pathology and Laboratory Medicine), Filutowicz (Bacteriology), Martin (Biochemistry), McMahon (Civil Engineering and Environmental Engineering), Schuler (Comparative Biosciences), Skop (Genetics)

## NEUROBIOLOGY, B.A.

Neuroscience is the scientific study of the central (brain and spinal cord) and peripheral (nerves in body) nervous system. The neurobiology major at UW–Madison will provide a rigorous education in neuroscience principles that will prepare students for health-related careers (physician, physician assistant, veterinarian, dentist, neuroimaging technician,

speech-language pathologist, neuropsychologist, drug rehabilitation counselor, physical therapists), academic careers (college and university faculty, research scientists, lab technician, K-12 teachers), and careers in pharmaceutical and biotech industries, venture capital and scientific consulting firms, medical and scientific journals, intellectual property law, neuroscience-related nonprofit organizations and foundations, and government agencies. UW–Madison is one of the leading universities in the world with more than 90 faculty engaged in neuroscience research and undergraduates will have access to this research faculty in formal classroom environments and through undergraduate research opportunities. Please see the Neurobiology Major (<http://www.neuromajor.wisc.edu>) website for more information.

## ABOUT THE CURRICULUM

The curriculum is designed to give students a solid foundation in basic biology, chemistry, physics, and mathematics before going on to study neuroscience at the molecular, cellular, systems, and cognitive levels. Students with interests in non-neuroscience majors are welcome and encouraged to enroll in neuroscience courses. For example, students may be attracted to the diversity and flexibility of courses offered within the biology major in the College of Agricultural and Life Sciences and still take several neuroscience courses that satisfy requirements in the biology major. Students can also perform independent research in neuroscience laboratories on campus. Students in other majors, such as biochemistry, psychology, genetics, animal sciences, communication sciences and disorders, engineering, and computer science, can enroll in neuroscience courses that uniquely complement courses within their major. The Neurobiology Major Program Committee is committed to increasing opportunities for all students with interests in neuroscience and helping students accomplish their academic goals at UW–Madison. This new major is tailored to attract students from a diverse array of backgrounds. Please see the Neurobiology Major website (<http://www.neuromajor.wisc.edu>) for more information.

## HOW TO GET IN

Undergraduate advising in the major: The student services coordinators Catherine Auger and Virginia Jackson, located in Birge Hall, are the primary advisors for the neurobiology major. Students should declare the major no later than the beginning of the junior year. Students can make appointments for general advising and major declarations through the student services coordinators:

Catherine Auger, Schedule an Appointment (<http://guide.wisc.edu/undergraduate/letters-science/zoology/neurobiology-ba/%20https://calendar.wisc.edu/scheduling-assistant/public/profiles/GvjvmzDO.html>)  
Virginia Jackson, Schedule an Appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBNbotSX.html>)

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>Social Sciences, 12 credits</li> <li>Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>
Liberal Arts and Science Coursework	108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major	Declare and complete at least one (1) major
Total Credits	120 credits
UW-Madison Experience	30 credits in residence, overall
Minimum GPAs	30 credits in residence after the 90th credit
	2.000 in all coursework at UW-Madison
	2.000 in intermediate/advanced coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR MATH, STATISTICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics—one course:</b>		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
<b>Statistics—one course:</b>		3
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
BOTANY 575	Special Topics	
<b>General Chemistry—one course:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Organic Chemistry—one course:</b>		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343 & CHEM 345	Introductory Organic Chemistry and Intermediate Organic Chemistry	
<b>General Physics 1—one course:</b>		4
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
E M A 201 & E M A 202	Statics and Dynamics	
<b>General Physics 2</b>		4
Select one of the following:		
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
PHYSICS 248	A Modern Introduction to Physics	

M E 240	Dynamics	
Total Credits		24-28

### 30 CREDITS OF BIOLOGY AND NEUROBIOLOGY

Credits will be applied from General Biology, Neurobiology, Lab, and Electives. Courses apply only once.

#### General Biology

Complete one General Biology sequence:

Code	Title	Credits
<b>Introductory Biology</b>		10-16

ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
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ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
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#### BIOCORE<sup>3</sup>

BIOCORE 381	Evolution, Ecology, and Genetics	
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BIOCORE 383	Cellular Biology	
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BIOCORE 485	Organismal Biology	
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BIOCORE 587	Biological Interactions	
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Plus two from:

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
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BIOCORE 384	Cellular Biology Laboratory	
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BIOCORE 486	Organismal Biology Laboratory	
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#### Animal Biology

ZOOLOGY/ BIOLOGY 101	Animal Biology	
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ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
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BOTANY/ BIOLOGY 130	General Botany	
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#### Neurobiology

Code	Title	Credits
<b>Neurobiology:</b>		

ZOOLOGY/ PSYCH 523	Neurobiology	3
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#### Behavioral Neuroscience:

PSYCH 454	Behavioral Neuroscience	3
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or ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	
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#### Neuroscience Seminar:

ZOOLOGY 500	Undergraduate Neurobiology Seminar	1
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#### Distributed Neuroscience—three courses from:

BIOCHEM 501	Introduction to Biochemistry <sup>1</sup>	
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BIOCHEM 508	General Biochemistry II <sup>1</sup>	
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BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms <sup>1</sup>	
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CS&D 210	Neural Basis of Communication	
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CS&D 503	Neural Mechanisms of Speech, Hearing and Language	
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ED PSYCH 326	Mind, Brain and Education	
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KINES 531	Neural Control of Movement	
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NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	
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NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior	
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NTP/ PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	
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NTP/ANATOMY/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	
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NTP/ ZOOLOGY 635	Neurobiology of Disease	
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NTP 670	Stem Cells and the Central Nervous System	
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NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	
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NTP 675	Special Topics (Behavioral Neuroendocrinology)	
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NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	
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NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	
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NTP 675	Special Topics (Methods for Neuroimaging Research)	
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NTP 675	Special Topics (Neuroendocrinology)	
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NTP 675	Special Topics (Reproductive Neuroendocrinology)	
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NTP 675	Special Topics (Brain Mapping in Health and Disease: Applications)	
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PHYSIOL 335	Physiology <sup>1</sup>	
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PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	
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PSYCH 406	Psychology of Perception	
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PSYCH 601	Current Topics in Psychology (Epigenetics and the Brain)	
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PSYCH 601	Current Topics in Psychology (Neuropharmacology)	
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PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)	
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PSYCH 601	Current Topics in Psychology (Neuroeconomics)	
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PSYCH 414	Cognitive Psychology	
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PSYCH 481	Honors Seminar in Cognitive Psychology	
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PSYCH 486	Honors: Psychology of Perception	
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PSYCH 501	Depth Topic (Hormones, Brain, and Behavior)	
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PSYCH 556	Hormones and Behavior	
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PSYCH 581	Honors Depth Topic (Hormones, Brain, and Behavior)	
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PSYCH/ ANATOMY/NTP/ PHMCOL-M/ PHYSIOL 611	Systems Neuroscience
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind
ZOOLOGY/ NTP 620	Neuroethology Seminar
ZOOLOGY 625	Development of the Nervous System
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Total Credits	10

<sup>1</sup> Students may apply only one of the following courses toward the major: BIOCHEM 501, BIOCHEM 508, PHYSIOL 335, PHYSIOL 435.

### Lab/Research Experience <sup>2</sup>

Choose one option from:

Code	Title	Credits
<b>Neuroscience Lab—one course:</b>		
BIOCORE 486	Organismal Biology Laboratory	
NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior	
PHYSIOL 435	Fundamentals of Human Physiology	
PHYSIOL/ ANATOMY/ NTP 625	Brain Cell Cultures and Imaging: A Lab Course	
PSYCH 620	Capstone Mentored Research and Seminar	
ZOOLOGY 555	Laboratory in Developmental Biology	
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab	
ZOOLOGY 612	Comparative Physiology Laboratory	
<b>Directed Study—3 credits from:</b> <sup>3</sup>		
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
BIOLOGY 699	Directed Studies	
BMOLCHEM 699	Special Research Problems	
CHEM 699	Directed Study	
CS&D 699	Directed Study	
FAM MED 699	Directed Study	
GENETICS 699	Special Problems	
KINES 699	Independent Study	
MED PHYS 699	Independent Reading or Research	
MEDICINE 699	Independent Study	
M M & I 699	Directed Study	

MOL BIOL 699	Directed Studies in Molecular Biology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NEUROL 699	Neurology: Directed Study in Neuroscience Research
NTP 699	Directed Study in Research
NEURODPT 699	Independent Work
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHYSIOL 699	Independent Work
POP HLTH 699	Independent Reading
PSYCH 699	Directed Study
PSYCHIAT 699	Independent Study
RADIOL 699	Directed Study
SURGERY 699	Independent Study
ZOOLOGY 699	Directed Studies in Zoology

### Thesis—two semesters:

PSYCH 681 & PSYCH 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

<sup>2</sup> Note that Lab courses may also be those that apply in the Neurobiology category above.

<sup>3</sup> Only Directed Study courses taken **after** — and not concurrent with or prior to — the completion of an Introductory Biology sequence are accepted in the major.

### Electives

Additional credits from the Neurobiology, Lab, or the following list, to attain 30 credits in the major.

Code	Title	Credits
AN SCI/ DY SCI 362	Veterinary Genetics	
AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology	
AN SCI/ GENETICS 610	Quantitative Genetics	
ANATOMY/ KINES 329	Human Anatomy-Kinesiology	
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	
BIOCHEM 507	General Biochemistry I	
BIOCHEM 508	General Biochemistry II	



BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry
BIOCHEM 601	Protein and Enzyme Structure and Function	MICROBIO 526	Physiology of Microorganisms
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	MICROBIO 527	Advanced Laboratory Techniques in Microbiology
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	MICROBIO/ M M & I/PATH- BIO 528	Immunology
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses
BMOLCHEM 314	Introduction to Human Biochemistry	MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution
BMOLCHEM 503	Human Biochemistry	NUTR SCI 431	Nutrition in the Life Span
BMOLCHEM 504	Human Biochemistry Laboratory	NUTR SCI 631	Clinical Nutrition
F&W ECOL 401	Physiological Animal Ecology	NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements
GENETICS 466	Principles of Genetics	ONCOLOGY 401	Introduction to Experimental Oncology
GENETICS 545	Genetics Laboratory	ONCOLOGY/ MICROBIO/ PL PATH 640	General Virology-Multiplication of Viruses
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology
GENETICS/ MD GENET 565	Human Genetics	PHYSIOL 533	Molecular Physiology
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	PSYCH 449	Animal Behavior
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
KINES 314	Physiology of Exercise	PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language
M M & I 301	Pathogenic Bacteriology	ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology
M M & I 302	Medical Microbiology Laboratory	ZOOLOGY 425	Behavioral Ecology
M M & I 341	Immunology	ZOOLOGY 430	Comparative Anatomy of Vertebrates
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	ZOOLOGY 470	Introduction to Animal Development
M M & I/ PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory	ZOOLOGY/ GEOSCI 541	Paleobiology
M M & I 410	Medical Mycology	ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
M M & I 412	Medical Mycology Laboratory	ZOOLOGY 555	Laboratory in Developmental Biology
M M & I/PATH- BIO 529	Immunology Laboratory	ZOOLOGY 570	Cell Biology
M M & I/ BIOCHEM 575	Biology of Viruses		
MICROBIO 303	Biology of Microorganisms		
MICROBIO 304	Biology of Microorganisms Laboratory		
MICROBIO 330	Host-Parasite Interactions		
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms		
MICROBIO 470	Microbial Genetics & Molecular Machines		

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>4</sup>

15 credits in the major, taken on the UW-Madison campus

<sup>4</sup> Major courses numbered 300–699 are considered upper level.

## HONORS IN THE MAJOR

Approved for declaration fall 2017 or later.

Students may declare Honors in the Neurobiology Major in consultation with the Neurobiology undergraduate advisor(s).

### HONORS IN THE NEUROBIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Neurobiology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all major courses
- Complete 14 credits, taken for Honors, with individual grades of B or better, while in residence, to include:
  - Two courses from PSYCH 454 Behavioral Neuroscience, ZOOLOGY/PSYCH 523 Neurobiology and ZOOLOGY 500 Undergraduate Neurobiology Seminar
  - One course from the Required Neuroscience or Distributed Neuroscience course lists (above), taken for honors credit
  - A two-semester Senior Honors Thesis, typically 681 and 682, for a total of 6 credits.<sup>1</sup>

The Senior Honors Thesis project must be approved by the Neurobiology Major Program Committee at least one month before beginning 681. The project must focus on a neuroscience-related topic.

<sup>1</sup> The thesis can be taken in the following departments: ANATOMY, ANESTHES, BIOLOGY, BMOLCHEM, CHEM, COMP BIO, CRB, CS&D, ED PSYCH, FAM MED, GENETICS, KINES, MEDICINE, MED PHYS, MED CS-V, M M & I, MOL BIOL, NEURODPT, NEUROL, NEURSURG, NTP, NUTR SCI, OBS&GYN, ONCOLOGY, OPHTHALM, PATH, PATH-BIO, PEDIAT, PHM SCI, PHYSIOL, POP HLTH, PSYCH, PSYCHIAT, RADIOL, SURGERY, ZOOLOGY. Other departments will be considered on a case-by-case basis by the Neurobiology Major Program Committee.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Demonstrate understanding of basic concepts in biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate understanding of the ionic basis for the neuronal membrane potential and action potential, and as well as the factors that determine neuronal excitability.
3. Demonstrate understanding of the basic mechanisms for synaptic transmission, neurotransmitter release, postsynaptic effects, and modulation of pre- and postsynaptic mechanisms. Predict how specific physiological and pathological conditions alter neuronal function at the cellular and synaptic levels.
4. Differentiate between examples of neuroplasticity at cellular, systems, and organismal levels.
5. Demonstrate understanding of central and peripheral neuroanatomy, basic functions of brain regions, and well-known neural pathways. Predict how localized disruptions of neuronal function alter behavior, motor function, or perception.
6. Demonstrate understanding of basic principles underlying motor function, sensory function (auditory, visual, touch, taste), emotion, autonomic regulation, and higher order cognitive functions (language, memory, attention, decision-making).
7. Demonstrate how experimental tools in neuroscience are used to address experimental questions, such as intra/extracellular recording, molecular biology techniques, immunohistochemical staining, fluorescent and electron microscopy, genetic manipulation, brain imaging, behavioral testing.

## ADVISING AND CAREERS

### NEUROBIOLOGY MAJOR ADVISING

The advisors for the neurobiology major are committed to providing students with first-rate guidance through the major and to graduation. Also the neurobiology major advisors are dedicated to helping a student focus their future plans after undergraduate study. If you are interested in declaring the neurobiology major, make an appointment to discuss this.

### CONTACT INFORMATION

Catherine Auger  
 Birge Hall, Room B156  
 430 Lincoln Drive  
 cauger@wisc.edu  
 Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/GvjvmzDO.html>)

Virginia Jackson  
 Birge Hall, Room 141  
 430 Lincoln Drive  
 vjackson4@wisc.edu  
 Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBNbotSX.html?jsessionid=53F9D957BE6099BCF895E0A8487F3B94.primary>)

## PEOPLE

### FACULTY

Professors Hardin (chair, [jddhardin@wisc.edu](mailto:jddhardin@wisc.edu)), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Ritters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

**Neurobiology Major Programming Committee:** Professors Ciucci (Communication Sciences and Disorders; Surgery), Gammie (Zoology), Johnson (Comparative Biosciences, chair of major), Lipton (Neuroscience), Postle (Psychology), Turkstra (Communication Sciences and Disorders)

## NEUROBIOLOGY, B.S.

Neuroscience is the scientific study of the central (brain and spinal cord) and peripheral (nerves in body) nervous system. The neurobiology major at UW–Madison will provide a rigorous education in neuroscience principles that will prepare students for health-related careers (physician, physician assistant, veterinarian, dentist, neuroimaging technician, speech-language pathologist, neuropsychologist, drug rehabilitation counselor, physical therapists), academic careers (college and university faculty, research scientists, lab technician, K-12 teachers), and careers in pharmaceutical and biotech industries, venture capital and scientific consulting firms, medical and scientific journals, intellectual property law, neuroscience-related nonprofit organizations and foundations, and government agencies. UW–Madison is one of the leading universities in the world with more than 90 faculty engaged in neuroscience research and undergraduates will have access to this research faculty in formal classroom environments and through undergraduate research opportunities. Please see the Neurobiology Major (<http://www.neuromajor.wisc.edu>) website for more information.

### ABOUT THE CURRICULUM

The curriculum is designed to give students a solid foundation in basic biology, chemistry, physics, and mathematics before going on to study neuroscience at the molecular, cellular, systems, and cognitive levels. Students with interests in non-neuroscience majors are welcome and encouraged to enroll in neuroscience courses. For example, students may be attracted to the diversity and flexibility of courses offered within the biology major in the College of Agricultural and Life Sciences and still take several neuroscience courses that satisfy requirements in the biology major. Students can also perform independent research in neuroscience laboratories on campus. Students in other majors, such as biochemistry, psychology, genetics, animal sciences, communication sciences and disorders, engineering, and computer science, can enroll in neuroscience courses that uniquely complement courses within their major. The Neurobiology Major Program Committee is committed to increasing opportunities for all students with interests in neuroscience and helping students accomplish their academic goals at UW–Madison. This new major is tailored to attract students from a diverse array

of backgrounds. Please see the Neurobiology Major website (<http://www.neuromajor.wisc.edu>) for more information.

### HOW TO GET IN

Undergraduate advising in the major: The student services coordinators Catherine Auger and Virginia Jackson, located in Birge Hall, are the primary advisors for the neurobiology major. Students should declare the major no later than the beginning of the junior year. Students can make appointments for general advising and major declarations through the student services coordinators:

Catherine Auger, Schedule an Appointment (<http://guide.wisc.edu/undergraduate/letters-science/zoology/neurobiology-bs/%20https://calendar.wisc.edu/scheduling-assistant/public/profiles/GvjvmzDO.html>)  
Virginia Jackson, Schedule an Appointment (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBNbotSX.html>)

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

##### Requirements Detail

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

#### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree

requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

### Requirements Detail

**Mathematics** Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

**Foreign Language** Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

**L&S Breadth**

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

**Liberal Arts and Science Coursework** 108 credits

**Depth of Intermediate/Advanced work** 60 intermediate or advanced credits

**Major** Declare and complete at least one (1) major

**Total Credits** 120 credits

**UW-Madison Experience** 30 credits in residence, overall

30 credits in residence after the 90th credit

**Minimum GPAs** 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR MATH, STATISTICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics—one course:</b>		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry 1	
<b>Statistics—one course:</b>		3
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
BOTANY 575	Special Topics	
<b>General Chemistry—one course:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Organic Chemistry—one course:</b>		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343 & CHEM 345	Introductory Organic Chemistry and Intermediate Organic Chemistry	
<b>General Physics 1—one course:</b>		4
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
E M A 201 & E M A 202	Statics and Dynamics	
<b>General Physics 2</b>		4
Select one of the following:		
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
M E 240	Dynamics	
Total Credits		24-28

## 30 CREDITS OF BIOLOGY AND NEUROBIOLOGY

Credits will be applied from General Biology, Neurobiology, Lab, and Electives. Courses apply only once.

### General Biology

Complete one General Biology sequence:

Code	Title	Credits
<b>Introductory Biology</b>		10-16
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
<b>BIOCORE<sup>3</sup></b>		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BIOCORE 485	Organismal Biology	
BIOCORE 587	Biological Interactions	
<i>Plus two from:</i>		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	
<b>Animal Biology</b>		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

<b>Neurobiology</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Neurobiology:</b>		
ZOOLOGY/ PSYCH 523	Neurobiology	3
<b>Behavioral Neuroscience:</b>		
PSYCH 454 or ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Behavioral Neuroscience Neurobiology II: An Introduction to the Brain and Behavior	3
<b>Neuroscience Seminar:</b>		
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1
<b>Distributed Neuroscience—three courses from:</b>		
BIOCHEM 501	Introduction to Biochemistry <sup>1</sup>	3
BIOCHEM 508	General Biochemistry II <sup>1</sup>	
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms <sup>1</sup>	
CS&D 210	Neural Basis of Communication	
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	
ED PSYCH 326	Mind, Brain and Education	
KINES 531	Neural Control of Movement	
NTP/PHMCOL-M/ PHYSIOL 610	Cellular and Molecular Neuroscience	
NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior	
NTP/ PHYSIOL 629	Molecular and Cellular Mechanisms of Memory	
NTP/ANATOMY/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	
NTP/ ZOOLOGY 635	Neurobiology of Disease	
NTP 670	Stem Cells and the Central Nervous System	
NTP 675	Special Topics (Basic Sleep Mechanisms & Sleep Disorders)	
NTP 675	Special Topics (Behavioral Neuroendocrinology)	
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	
NTP 675	Special Topics (Methods for Neuroimaging Research)	
NTP 675	Special Topics (Neuroendocrinology)	
NTP 675	Special Topics (Reproductive Neuroendocrinology)	
NTP 675	Special Topics (Brain Mapping in Health and Disease: Applications)	
PHYSIOL 335	Physiology <sup>1</sup>	
PHYSIOL 435	Fundamentals of Human Physiology <sup>1</sup>	

PSYCH 406	Psychology of Perception
PSYCH 601	Current Topics in Psychology (Epigenetics and the Brain)
PSYCH 601	Current Topics in Psychology (Neuropharmacology)
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)
PSYCH 601	Current Topics in Psychology (Neuroeconomics)
PSYCH 414	Cognitive Psychology
PSYCH 481	Honors Seminar in Cognitive Psychology
PSYCH 486	Honors: Psychology of Perception
PSYCH 501	Depth Topic (Hormones, Brain, and Behavior)
PSYCH 556	Hormones and Behavior
PSYCH 581	Honors Depth Topic (Hormones, Brain, and Behavior)
PSYCH/ ANATOMY/NTP/ PHMCOL-M/ PHYSIOL 611	Systems Neuroscience
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind
ZOOLOGY/ NTP 620	Neuroethology Seminar
ZOOLOGY 625	Development of the Nervous System
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Total Credits	10

<sup>1</sup> Students may apply only one of the following courses toward the major: BIOCHEM 501, BIOCHEM 508, PHYSIOL 335, PHYSIOL 435.

### **Lab/Research Experience <sup>2</sup>**

Choose one option from:

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Neuroscience Lab—one course:</b>		
BIOCORE 486	Organismal Biology Laboratory	
NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior	
PHYSIOL 435	Fundamentals of Human Physiology	
PHYSIOL/ ANATOMY/ NTP 625	Brain Cell Cultures and Imaging: A Lab Course	
PSYCH 620	Capstone Mentored Research and Seminar	

ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab
ZOOLOGY 612	Comparative Physiology Laboratory
<b>Directed Study—3 credits from:</b> <sup>3</sup>	
ANATOMY 699	Independent Study
ANESTHES 699	Independent Study
BIOLOGY 699	Directed Studies
BMOLCHEM 699	Special Research Problems
CHEM 699	Directed Study
CS&D 699	Directed Study
FAM MED 699	Directed Study
GENETICS 699	Special Problems
KINES 699	Independent Study
MED PHYS 699	Independent Reading or Research
MEDICINE 699	Independent Study
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NEUROL 699	Neurology: Directed Study in Neuroscience Research
NTP 699	Directed Study in Research
NEURODPT 699	Independent Work
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHYSIOL 699	Independent Work
POP HLTH 699	Independent Reading
PSYCH 699	Directed Study
PSYCHIAT 699	Independent Study
RADIOL 699	Directed Study
SURGERY 699	Independent Study
ZOOLOGY 699	Directed Studies in Zoology
<b>Thesis—two semesters:</b>	
PSYCH 681 & PSYCH 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

<sup>2</sup> Note that Lab courses may also be those that apply in the Neurobiology category above.

<sup>3</sup> Only Directed Study courses taken **after** – and not concurrent with or prior to – the completion of an Introductory Biology sequence are accepted in the major.

## Electives

Additional credits from the Neurobiology, Lab, or the following list, to attain 30 credits in the major:

Code	Title	Credits
AN SCI/ DY SCI 362	Veterinary Genetics	
AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology	
AN SCI/ GENETICS 610	Quantitative Genetics	
ANATOMY/ KINES 329	Human Anatomy-Kinesiology	
ANATOMY/NTP/ PHYSIOL 630	Neuronal Mechanisms for Sensation and Memory in Cerebral Cortex	
BIOCHEM 507	General Biochemistry I	
BIOCHEM 508	General Biochemistry II	
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	
BIOCHEM 601	Protein and Enzyme Structure and Function	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
BIOCHEM 625	Coenzymes and Cofactors in Enzymology	
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	
BMOLCHEM 314	Introduction to Human Biochemistry	
BMOLCHEM 503	Human Biochemistry	
BMOLCHEM 504	Human Biochemistry Laboratory	
F&W ECOL 401	Physiological Animal Ecology	
GENETICS 466	Principles of Genetics	
GENETICS 545	Genetics Laboratory	
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	
GENETICS/ MD GENET 565	Human Genetics	
GENETICS/ MICROBIO 607	Advanced Microbial Genetics	
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	
KINES 314	Physiology of Exercise	
M M & I 301	Pathogenic Bacteriology	
M M & I 302	Medical Microbiology Laboratory	
M M & I 341	Immunology	

M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I/ PATH-BIO/ ZOOLOGY 351	Parasitology Laboratory
M M & I 410	Medical Mycology
M M & I 412	Medical Mycology Laboratory
M M & I/PATH- BIO 529	Immunology Laboratory
M M & I/ BIOCHEM 575	Biology of Viruses
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
MICROBIO 330	Host-Parasite Interactions
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms
MICROBIO 470	Microbial Genetics & Molecular Machines
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry
MICROBIO 526	Physiology of Microorganisms
MICROBIO 527	Advanced Laboratory Techniques in Microbiology
MICROBIO/ M M & I/PATH- BIO 528	Immunology
MICROBIO 551	Physiological Diversity of Prokaryotes Laboratory
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution
NUTR SCI 431	Nutrition in the Life Span
NUTR SCI 631	Clinical Nutrition
NUTR SCI/ PHM PRAC 672	Herbals, Homeopathy, and Dietary Supplements
ONCOLOGY 401	Introduction to Experimental Oncology
ONCOLOGY/ MICROBIO/ PL PATH 640	General Virology-Multiplication of Viruses
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology
PHYSIOL 533	Molecular Physiology
PSYCH 449	Animal Behavior
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
PSYCH/ ZOOLOGY 550	Animal Communication and the Origins of Language
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology
ZOOLOGY 425	Behavioral Ecology

ZOOLOGY 430	Comparative Anatomy of Vertebrates
ZOOLOGY 470	Introduction to Animal Development
ZOOLOGY/ GEOSCI 541	Paleobiology
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY 570	Cell Biology

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>4</sup>

15 credits in in the major, taken on the UW–Madison campus

<sup>4</sup> Major courses numbered 300–699 are considered upper level.

## HONORS IN THE MAJOR

*Approved for declaration fall 2017 or later.*

Students may declare Honors in the Neurobiology Major in consultation with the Neurobiology undergraduate advisor(s).

## HONORS IN THE NEUROBIOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Neurobiology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all major courses
- Complete 14 credits, taken for Honors, with individual grades of B or better, while in residence, to include:
  - Two courses from PSYCH 454 Behavioral Neuroscience, ZOOLOGY/PSYCH 523 Neurobiology and ZOOLOGY 500 Undergraduate Neurobiology Seminar
  - One course from the Required Neuroscience or Distributed Neuroscience course lists (above), taken for honors credit
  - A two-semester Senior Honors Thesis, typically 681 and 682, for a total of 6 credits.<sup>1</sup>

The Senior Honors Thesis project must be approved by the Neurobiology Major Program Committee at least one month before beginning 681. The project must focus on a neuroscience-related topic.

<sup>1</sup> The thesis can be taken in the following departments: ANATOMY, ANESTHES, BIOLOGY, BMOLCHEM, CHEM, COMP BIO, CRB, CS&D, ED PSYCH, FAM MED, GENETICS, KINES, MEDICINE, MED PHYS, MED CS-V, M M & I, MOL BIOL, NEURODPT, NEUROL, NEURSURG, NTP, NUTR SCI, OBS&GYN, ONCOLOGY, OPHTHALM, PATH, PATH-BIO, PEDIAT, PHM SCI, PHYSIOL, POP HLTH, PSYCH, PSYCHIAT, RADIOL, SURGERY, ZOOLOGY. Other departments will be considered on a case-by-case basis by the Neurobiology Major Program Committee.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of basic concepts in biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate understanding of the ionic basis for the neuronal membrane potential and action potential, and as well as the factors that determine neuronal excitability.
3. Demonstrate understanding of the basic mechanisms for synaptic transmission, neurotransmitter release, postsynaptic effects, and modulation of pre- and postsynaptic mechanisms. Predict how specific physiological and pathological conditions alter neuronal function at the cellular and synaptic levels.
4. Differentiate between examples of neuroplasticity at cellular, systems, and organismal levels.
5. Demonstrate understanding of central and peripheral neuroanatomy, basic functions of brain regions, and well-known neural pathways. Predict how localized disruptions of neuronal function alter behavior, motor function, or perception.
6. Demonstrate understanding of basic principles underlying motor function, sensory function (auditory, visual, touch, taste), emotion, autonomic regulation, and higher order cognitive functions (language, memory, attention, decision-making).
7. Demonstrate how experimental tools in neuroscience are used to address experimental questions, such as intra/extracellular recording, molecular biology techniques, immunohistochemical staining, fluorescent and electron microscopy, genetic manipulation, brain imaging, behavioral testing.

## ADVISING AND CAREERS

### NEUROBIOLOGY MAJOR ADVISING

The advisors for the neurobiology major are committed to providing students with first-rate guidance through the major and to graduation. Also the neurobiology major advisors are dedicated to helping a student

focus their future plans after undergraduate study. If you are interested in declaring the neurobiology major, make an appointment to discuss this.

## CONTACT INFORMATION

Catherine Auger  
 Birge Hall, Room B156  
 430 Lincoln Drive  
 cauger@wisc.edu  
 Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/GvjvmzDO.html>)

Virginia Jackson  
 Birge Hall, Room 141  
 430 Lincoln Drive  
 vjackson4@wisc.edu  
 Scheduling Assistant (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/aBnbotSX.html>;jsessionid=53F9D957BE6099BCF895E0A8487F3B94.primary)

## PEOPLE

### FACULTY

Professors Hardin (chair, [jdhardin@wisc.edu](mailto:jdhardin@wisc.edu)), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Riters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

**Neurobiology Major Programming Committee:** Professors Ciucci (Communication Sciences and Disorders; Surgery), Gammie (Zoology), Johnson (Comparative Biosciences, chair of major), Lipton (Neuroscience), Postle (Psychology), Turkstra (Communication Sciences and Disorders)

## ZOOLOGY, B.A.

The zoology major is a gateway to the diverse areas of modern biology. The major can be tailored to prepare students for advanced study and careers in many different areas: health professions and public health; law; life sciences research in university, government, and industrial settings; education including museum, nature center, secondary school, and college teaching; biotechnology; and environmental studies.

Specialized preparation is offered in ecology, systematics, limnology, morphology, molecular biology, cellular biology, developmental biology, genetics, neurobiology, physiology, evolution, and behavior. Several possible areas, emphasizing different interests, are outlined in the requirements tab. They include ecology, evolution, and behavior; anatomy, physiology, and organismal biology; and cellular, molecular, and developmental biology. The department encourages undergraduate participation in research and offers summer research scholarships to outstanding students.

### GOALS OF THE ZOOLOGY MAJOR

The zoology major emphasizes critical thinking and conceptual skills that come from an understanding of how scientific information is



obtained and evaluated, and of how this information can be applied to societal issues. The major provides a solid foundation in genetic, cellular, physiological, ecological, and evolutionary principles, and in the related disciplines of chemistry, physics, and mathematics. As a result, the major fosters an understanding of biological complexity including the interrelationships among humans and natural systems.

The unique characteristics of the zoology major include:

- broad-based, yet integrated training in wide-ranging areas of biology;
- solid foundation of basic principles and processes in biology;
- flexibility and advising needed to allow students to tailor the major to their specific goals;
- wide range of opportunities for undergraduate involvement in independent research and senior thesis.

## HOW TO GET IN

### DECLARING THE ZOOLOGY MAJOR

All students who are interested in pursuing the zoology major must schedule an appointment with a department advisor. No major declaration forms are required to declare zoology.

Note: Students in the College of Letters & Science (L&S) may be declared by a department advisor immediately. Students who are not currently in L&S need to either transfer into L&S or have permission from their school or college to pursue an additional major in zoology. Instructions for transferring into L&S are available on the L&S Student Academic Affairs website (<http://saa.ls.wisc.edu>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

### BACHELOR OF ARTS DEGREE REQUIREMENTS

#### Requirements Detail

Mathematics	Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language</li> </ul> <p>Note: A unit is one year of high school work or one semester/term of college work.</p>
L&S Breadth	<ul style="list-style-type: none"> <li>• Humanities, 12 credits: 6 of the 12 credits must be in literature</li> <li>• Social Sciences, 12 credits</li> <li>• Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences</li> </ul>

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum	2.000 in all coursework at UW–Madison
GPA	2.000 in intermediate/advanced coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements* and do not need to complete the L&S breadth and degree requirements above.

## REQUIREMENTS FOR THE MAJOR

### MATH, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Math—complete one:</b>		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
<b>Chemistry—complete one:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Physics—complete one:</b>		8-10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
Total Credits		18-25

## 30 CREDITS IN BIOLOGY AND ZOOLOGY COURSEWORK

### Introductory Biology

Code	Title	Credits
<b>Option 1: Introductory Biology</b>		
ZOOLOGY/ BIOLOGY/ BOTANY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	
<b>Option 2: BIOCORE</b>		
<i>Required courses:</i>		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BIOCORE 485	Organismal Biology	
BIOCORE 587	Biological Interactions	
<i>Select two of the following:</i>		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Organismal Biology Laboratory	

### Option 3: Animal Biology<sup>1</sup>

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
<b>Total Credits</b>		10-18

<sup>1</sup> BOTANY/BIOLOGY 130 is recommended, but not required for students pursuing Option 3.

### Zoology Electives<sup>2</sup>

Code	Title	Credits
ZOOLOGY 299	Directed Studies in Zoology	
ZOOLOGY 300	Invertebrate Biology and Evolution	
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	
ZOOLOGY/ ENTOM 302	Introduction to Entomology	
ZOOLOGY 303	Aquatic Invertebrate Biology	
ZOOLOGY/ ENVIR ST 315 & ZOOLOGY 316	Limnology-Conservation of Aquatic Resources and Laboratory for Limnology-Conservation of Aquatic Resources	
ZOOLOGY/ ENTOM/M M & I/ PATH-BIO 350	Parasitology	
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	
ZOOLOGY/ ENTOM 371	Medical Entomology	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
ZOOLOGY 425	Behavioral Ecology	
ZOOLOGY 430	Comparative Anatomy of Vertebrates	
ZOOLOGY/ BOTANY/ F&W ECOL 460	General Ecology	
GENETICS 466	Principles of Genetics	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY/ BOTANY/ ENTOM 473	Plant-Insect Interactions	
ZOOLOGY 504	Modeling Animal Landscapes	
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520 & ZOOLOGY/ AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin	
ZOOLOGY/ PSYCH 523	Neurobiology	

ZOOLOGY/ ENTOM 540	Theoretical Ecology
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY/ GENETICS/ MD GENET 562	Human Cytogenetics
ZOOLOGY/ F&W ECOL/ LAND ARC 565	Principles of Landscape Ecology
ZOOLOGY 570	Cell Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab
ZOOLOGY/ NEURODPT/NTP/ PHYSIOL 616	Lab Course in Neurobiology and Behavior
ZOOLOGY/ ENTOM/ GENETICS 624	Molecular Ecology
ZOOLOGY/ BIOCHEM/ PHMCOL-M 630	Cellular Signal Transduction Mechanisms
ZOOLOGY/ NTP 635	Neurobiology of Disease
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
ZOOLOGY/ F&W ECOL 660	Climate Change Ecology
ZOOLOGY/ BOTANY/ F&W ECOL 672	Historical Ecology
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
ZOOLOGY 698	Directed Study
ZOOLOGY 699	Directed Studies in Zoology
<b>Total Credits</b>	12-20

<sup>2</sup> A maximum of 10 credits of Directed Study (ZOOLOGY 299, ZOOLOGY 698, ZOOLOGY 699), Senior Thesis (ZOOLOGY 691, ZOOLOGY 692), or Senior Honors thesis (ZOOLOGY 681, ZOOLOGY 682) count toward the 30 credits required for the major.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ZOOLOGY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>3</sup>

15 credits in ZOOLOGY, taken on the UW–Madison campus

<sup>3</sup> ZOOLOGY 300–699 and intermediate/advanced BIOCORE are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Zoology Major in consultation with the Zoology undergraduate advisor(s).

### HONORS IN THE ZOOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Zoology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all courses that count toward the major
- Complete 12 credits, taken for Honors, with individual grades of B or better. Select 6 credits from the following list:

Code	Title	Credits
ZOOLOGY/ANTHRO/ BOTANY 410	Evolutionary Biology	3
ZOOLOGY/BOTANY/ F&W ECOL 460	General Ecology	4
GENETICS 466	Principles of Genetics	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	5
ZOOLOGY/AN SCI/ F&W ECOL 520 & ZOOLOGY/AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin	6
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
ZOOLOGY/ PSYCH 550	Animal Communication and the Origins of Language	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3

And complete a two-semester Senior Honors Thesis in ZOOLOGY 681 Senior Honors Thesis and ZOOLOGY 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> A written thesis proposal must be approved by the thesis mentor and the departmental advisor.

By the beginning of the senior year, each honors student will develop a written thesis proposal that must first be approved by the thesis mentor and then by a department advisor. Two semesters of Senior Honors Thesis (ZOOLOGY 681 and ZOOLOGY 682, 6 total credits) must be taken; the first semester can be done during the summer, especially for students

doing field research. Completion of ZOOLOGY 682 requires a written thesis approved and graded by the thesis mentor.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the principles of genetics.
2. Understand the principles of cellular biology.
3. Understand the principles of physiology.
4. Understand the principles of ecology.
5. Understand the principles of evolution.
6. Understand current issues in biology.
7. Provide solid connections to related disciplines of chemistry, physics and mathematics.
8. Understand how scientific information is obtained.
9. Understand biological complexity.
10. Understand the interrelationship of humans and natural systems.
11. Develop quantitative reasoning skills (ability to solve problems requiring mathematic/statistical reasoning).
12. Develop critical thinking skills (ability to identify a problem, identify the information needed to solve the problem, and develop methods for solving the problem).
13. Develop skills to effectively communicate scientific information through oral presentations.
14. Develop skills to effectively communicate scientific information through written reports.
15. Develop skills to critically evaluate scientific information.
16. Develop an ability to engage in scientific inquiry.
17. Develop an ability to plan scientific experiments.
18. Access scientific information from various electronic and print sources.
19. Apply scientific knowledge to societal issues.
20. Appreciate the diversity of life.
21. Build a strong foundation for potential graduate study.

22. Develop a sense of competence in the field of study.

## ADVISING AND CAREERS

### ADVISING

Students are encouraged to consult with a department advisor to construct individual programs appropriate to their own needs. Please use scheduling assistant or call 608-262-2742 to make an appointment with an advisor. Kayla Pelland (kpelland@wisc.edu) is available to meet with students on Mondays and Wednesdays, and on Friday mornings in B154 Birge Hall.

### DIRECTED STUDY

For students interested in a short-term undergraduate research experience in a particular area of zoology, the department offers ZOOLOGY 699 Directed Studies in Zoology. ZOOLOGY 699, recommended for juniors and seniors, is graded on an A to F scale. Students cannot take directed studies on a pass/fail basis.

Directed study allows students to gain experience in a wide range of research areas in biology and to learn research techniques that are not easily taught in the classroom. Such experiences allow students to make more informed decisions about their future goals and careers.

Before students can sign up for ZOOLOGY 699, they must set up an appointment with a professor/mentor of their choice, and work with the professor/mentor to:

1. decide the specific number of credits and
2. plan the work required to earn those credits.

Such plans can involve reviewing relevant literature in the area, developing a proposal for independent research, and/or conducting an experiment in the mentor's study area.

Students interested in doing in-depth research as undergraduates in an area of interest can elect to do a Senior Thesis or Senior Honors Thesis (see below). Students should contact a department advisor at the beginning of their junior year to explore possible research areas.

A maximum of 10 credits of directed study (ZOOLOGY 299 , ZOOLOGY 698 , ZOOLOGY 699 ), senior thesis (ZOOLOGY 691 , ZOOLOGY 692 ), or senior honors thesis (ZOOLOGY 681 , ZOOLOGY 682 ) will count toward the 30 credits required for the major.

### SENIOR THESIS

Students interested in making a longer-term commitment to a research project may consider undertaking a senior thesis. Students should contact a department advisor during their junior year to explore possible research areas in zoology.

Zoology Senior Thesis Requirements:

- approval of a department advisor;
- completion of ZOOLOGY 691 and ZOOLOGY 692, a two-semester thesis research sequence, during the senior year (6 credits).

It is recommended that candidates for the senior thesis take ZOOLOGY 699 during second semester junior year to prepare for the thesis.

## SENIOR THESIS AND DISTINCTION IN THE MAJOR

Upon recommendation of the department to the dean, Distinction in the Major is granted at graduation to students not earning Honors in the Major who have done superior work in the major. In addition to the requirements for a senior thesis, to graduate with Distinction in the Zoology Major, students must maintain an overall GPA of 3.300 and a GPA of 3.500 in all zoology courses in the major.

## CAREERS

The Department of Zoology encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

Professors Hardin (chair, [jddhardin@wisc.edu](mailto:jddhardin@wisc.edu)), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Riters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

## ZOOLOGY, B.S.

The zoology major is a gateway to the diverse areas of modern biology. The major can be tailored to prepare students for advanced study and careers in many different areas: health professions and public health; law; life sciences research in university, government, and industrial settings; education including museum, nature center, secondary school, and college teaching; biotechnology; and environmental studies.

Specialized preparation is offered in ecology, systematics, limnology, morphology, molecular biology, cellular biology, developmental biology, genetics, neurobiology, physiology, evolution, and behavior. Several possible areas, emphasizing different interests, are outlined in the requirements tab. They include ecology, evolution, and behavior;

anatomy, physiology, and organismal biology; and cellular, molecular, and developmental biology. The department encourages undergraduate participation in research and offers summer research scholarships to outstanding students.

## GOALS OF THE ZOOLOGY MAJOR

The zoology major emphasizes critical thinking and conceptual skills that come from an understanding of how scientific information is obtained and evaluated, and of how this information can be applied to societal issues. The major provides a solid foundation in genetic, cellular, physiological, ecological, and evolutionary principles, and in the related disciplines of chemistry, physics, and mathematics. As a result, the major fosters an understanding of biological complexity including the interrelationships among humans and natural systems.

The unique characteristics of the zoology major include:

- broad-based, yet integrated training in wide-ranging areas of biology;
- solid foundation of basic principles and processes in biology;
- flexibility and advising needed to allow students to tailor the major to their specific goals;
- wide range of opportunities for undergraduate involvement in independent research and senior thesis.

## HOW TO GET IN

### DECLARING THE ZOOLOGY MAJOR

All students who are interested in pursuing the zoology major must schedule an appointment with a department advisor. No major declaration forms are required to declare zoology.

Note: Students in the College of Letters & Science (L&S) may be declared by a department advisor immediately. Students who are not currently in L&S need to either transfer into L&S or have permission from their school or college to pursue an additional major in zoology. Instructions for transferring into L&S are available on the L&S Student Academic Affairs website (<http://saa.ls.wisc.edu>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a bachelor of science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum. View a comparison of the degree requirements here. (<https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf>)

**BACHELOR OF SCIENCE DEGREE REQUIREMENTS****Requirements Detail**

Mathematics Two (2) 3+ credits of intermediate/advanced level MATH, COMP SCI, STAT  
Limit one each: COMP SCI, STAT

Foreign Language Complete the third unit of a foreign language  
Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth

- Humanities, 12 credits: 6 of the 12 credits must be in literature
- Social Sciences, 12 credits
- Natural Sciences, 12 credits: must include 6 credits in biological science; and must include 6 credits in physical science

Liberal Arts and Science Coursework 108 credits

Depth of Intermediate/Advanced work 60 intermediate or advanced credits

Major Declare and complete at least one (1) major

Total Credits 120 credits

UW-Madison Experience 30 credits in residence, overall

30 credits in residence after the 90th credit

Minimum GPAs 2.000 in all coursework at UW–Madison

2.000 in intermediate/advanced coursework at UW–Madison

**NON–L&S STUDENTS PURSUING AN L&S MAJOR**

Non–L&S students who have permission from their school/college to pursue an additional major within L&S *only need to fulfill the major requirements and do not need to complete the L&S breadth and degree requirements above.*

## REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Math—complete one:</b>		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
<b>Chemistry—complete one:</b>		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Physics—complete one:</b>		8-10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
Total Credits		18-25

**30 CREDITS IN BIOLOGY AND ZOOLOGY COURSEWORK****Introductory Biology**

Code	Title	Credits
<b>Option 1: Introductory Biology</b>		
ZOOLOGY/ BIOLOGY/ BOTANY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	

**Option 2: BIOCORE***Required courses:*

BIOCORE 381	Evolution, Ecology, and Genetics
BIOCORE 383	Cellular Biology
BIOCORE 485	Organismal Biology
BIOCORE 587	Biological Interactions

*Select two of the following:*

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 486	Organismal Biology Laboratory

**Option 3: Animal Biology**<sup>1</sup>

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory
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**Total Credits** 10-18

<sup>1</sup> BOTANY/BIOLOGY 130 is recommended, but not required for students pursuing Option 3.

### Zoology Electives <sup>2</sup>

Code	Title	Credits
ZOOLOGY 299	Directed Studies in Zoology	
ZOOLOGY 300	Invertebrate Biology and Evolution	
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	
ZOOLOGY/ ENTOM 302	Introduction to Entomology	
ZOOLOGY 303	Aquatic Invertebrate Biology	
ZOOLOGY/ ENVIR ST 315 & ZOOLOGY 316	Limnology-Conservation of Aquatic Resources and Laboratory for Limnology-Conservation of Aquatic Resources	
ZOOLOGY/ ENTOM/M M & I/ PATH-BIO 350	Parasitology	
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	
ZOOLOGY/ ENTOM 371	Medical Entomology	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
ZOOLOGY 425	Behavioral Ecology	
ZOOLOGY 430	Comparative Anatomy of Vertebrates	
ZOOLOGY/ BOTANY/ F&W ECOL 460	General Ecology	
GENETICS 466	Principles of Genetics	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY/ BOTANY/ ENTOM 473	Plant-Insect Interactions	
ZOOLOGY 504	Modeling Animal Landscapes	
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520 & ZOOLOGY/ AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin	
ZOOLOGY/ PSYCH 523	Neurobiology	

ZOOLOGY/ ENTOM 540	Theoretical Ecology
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY/ GENETICS/ MD GENET 562	Human Cytogenetics
ZOOLOGY/ F&W ECOL/ LAND ARC 565	Principles of Landscape Ecology
ZOOLOGY 570	Cell Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/ Disorder Research Lab
ZOOLOGY/ NEURODPT/NTP/ PHYSIOL 616	Lab Course in Neurobiology and Behavior
ZOOLOGY/ ENTOM/ GENETICS 624	Molecular Ecology
ZOOLOGY/ BIOCHEM/ PHMCO-M 630	Cellular Signal Transduction Mechanisms
ZOOLOGY/ NTP 635	Neurobiology of Disease
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
ZOOLOGY/ F&W ECOL 660	Climate Change Ecology
ZOOLOGY/ BOTANY/ F&W ECOL 672	Historical Ecology
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
ZOOLOGY 698	Directed Study
ZOOLOGY 699	Directed Studies in Zoology

**Total Credits** 12-20

<sup>2</sup> A maximum of 10 credits of Directed Study (ZOOLOGY 299, ZOOLOGY 698, ZOOLOGY 699), Senior Thesis (ZOOLOGY 691, ZOOLOGY 692), or Senior Honors thesis (ZOOLOGY 681, ZOOLOGY 682) count toward the 30 credits required for the major.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ZOOLOGY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>3</sup>

15 credits in ZOOLOGY, taken on the UW-Madison campus

<sup>3</sup> ZOOLOGY 300-699 and intermediate/advanced BIOCORE are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Zoology Major in consultation with the Zoology undergraduate advisor(s).

### HONORS IN THE ZOOLOGY MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Zoology students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.500 GPA in all courses that count toward the major
- Complete 12 credits, taken for Honors, with individual grades of B or better. Select 6 credits from the following list:

Code	Title	Credits
ZOOLOGY/ANTHRO/ BOTANY 410	Evolutionary Biology	3
ZOOLOGY/BOTANY/ F&W ECOL 460	General Ecology	4
GENETICS 466	Principles of Genetics	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	5
ZOOLOGY/AN SCI/ F&W ECOL 520 & ZOOLOGY/AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin	6
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
ZOOLOGY/ PSYCH 550	Animal Communication and the Origins of Language	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY/ BOTANY/ENVIR ST/ F&W ECOL 651	Conservation Biology	3

And complete a two-semester Senior Honors Thesis in ZOOLOGY 681 Senior Honors Thesis and ZOOLOGY 682 Senior Honors Thesis, for a total of 6 credits.<sup>1</sup>

<sup>1</sup> A written thesis proposal must be approved by the thesis mentor and the departmental advisor.

By the beginning of the senior year, each honors student will develop a written thesis proposal that must first be approved by the thesis mentor and then by a department advisor. Two semesters of Senior Honors Thesis (ZOOLOGY 681 and ZOOLOGY 682, 6 total credits) must be taken; the first semester can be done during the summer, especially for students

doing field research. Completion of ZOOLOGY 682 requires a written thesis approved and graded by the thesis mentor.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Understand the principles of genetics.
2. Understand the principles of cellular biology.
3. Understand the principles of physiology.
4. Understand the principles of ecology.
5. Understand the principles of evolution.
6. Understand current issues in biology.
7. Provide solid connections to related disciplines of chemistry, physics and mathematics.
8. Understand how scientific information is obtained.
9. Understand biological complexity.
10. Understand the interrelationship of humans and natural systems.
11. Develop quantitative reasoning skills (ability to solve problems requiring mathematic/statistical reasoning).
12. Develop critical thinking skills (ability to identify a problem, identify the information needed to solve the problem, and develop methods for solving the problem).
13. Develop skills to effectively communicate scientific information through oral presentations.
14. Develop skills to effectively communicate scientific information through written reports.
15. Develop skills to critically evaluate scientific information.
16. Develop an ability to engage in scientific inquiry.
17. Develop an ability to plan scientific experiments.
18. Access scientific information from various electronic and print sources.
19. Apply scientific knowledge to societal issues.
20. Appreciate the diversity of life.
21. Build a strong foundation for potential graduate study.



22. Develop a sense of competence in the field of study.

## ADVISING AND CAREERS

### ADVISING

Students are encouraged to consult with a department advisor to construct individual programs appropriate to their own needs. Please use scheduling assistant or call 608-262-2742 to make an appointment with an advisor. Kayla Pelland (kpelland@wisc.edu) is available to meet with students on Mondays and Wednesdays, and on Friday mornings in B154 Birge Hall.

### DIRECTED STUDY

For students interested in a short-term undergraduate research experience in a particular area of zoology, the department offers ZOOLOGY 699 Directed Studies in Zoology. ZOOLOGY 699, recommended for juniors and seniors, is graded on an A to F scale. Students cannot take directed studies on a pass/fail basis.

Directed study allows students to gain experience in a wide range of research areas in biology and to learn research techniques that are not easily taught in the classroom. Such experiences allow students to make more informed decisions about their future goals and careers.

Before students can sign up for ZOOLOGY 699, they must set up an appointment with a professor/mentor of their choice, and work with the professor/mentor to:

1. decide the specific number of credits and
2. plan the work required to earn those credits.

Such plans can involve reviewing relevant literature in the area, developing a proposal for independent research, and/or conducting an experiment in the mentor's study area.

Students interested in doing in-depth research as undergraduates in an area of interest can elect to do a Senior Thesis or Senior Honors Thesis (see below). Students should contact a department advisor at the beginning of their junior year to explore possible research areas.

A maximum of 10 credits of directed study (ZOOLOGY 299 , ZOOLOGY 698 , ZOOLOGY 699 ), senior thesis (ZOOLOGY 691 , ZOOLOGY 692 ), or senior honors thesis (ZOOLOGY 681 , ZOOLOGY 682 ) will count toward the 30 credits required for the major.

### SENIOR THESIS

Students interested in making a longer-term commitment to a research project may consider undertaking a senior thesis. Students should contact a department advisor during their junior year to explore possible research areas in zoology.

Zoology Senior Thesis Requirements:

- approval of a department advisor;
- completion of ZOOLOGY 691 and ZOOLOGY 692, a two-semester thesis research sequence, during the senior year (6 credits).

It is recommended that candidates for the senior thesis take ZOOLOGY 699 during second semester junior year to prepare for the thesis.

### SENIOR THESIS AND DISTINCTION IN THE MAJOR

Upon recommendation of the department to the dean, Distinction in the Major is granted at graduation to students not earning Honors in the Major who have done superior work in the major. In addition to the requirements for a senior thesis, to graduate with Distinction in the Zoology Major, students must maintain an overall GPA of 3.300 and a GPA of 3.500 in all zoology courses in the major.

### CAREERS

The Department of Zoology encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Why the liberal arts? (<http://ls.wisc.edu/about/why-liberal-arts>)
- Set up a Career Advising Appointment (<http://careers.ls.wisc.edu/Undergraduate-Advising.htm>)
- L&S Career Services (<http://careers.ls.wisc.edu/students.htm>): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/about/lsci?p=careerinitiative.html>)

## PEOPLE

### FACULTY

Professors Hardin (chair, [jddhardin@wisc.edu](mailto:jddhardin@wisc.edu)), Bement, Blair, Carpenter, Gammie, Halloran, Ives, Lee, Newmark, Porter, Riters, Stanley, Stretton, Turner and Vander Zanden

Associate Professors Amann, Damschen, Grinblat, McIntyre and Orrock

Assistant Professors Sharma and Wolman

Adjunct Professor Peckarsky

## DIVISION OF CONTINUING STUDIES

The mission of the Division of Continuing Studies (DCS) (<http://continuingstudies.wisc.edu>) is to advocate for and to engage lifelong learners through high-quality and innovative programs and services. Through its units, it provides direct services to adult students and admission to the university, offers noncredit classes and programs, supports the development of online courses and programs, and coordinates the UW–Madison Summer Term.

### ADULT CAREER AND SPECIAL STUDENT SERVICES

Adult Career and Special Student Services (ACSSS) (<http://continuingstudies.wisc.edu/advising>) serves adults returning to formal education and/or considering a career change. ACSSS provides career counseling, academic advising, and university information to adults. People do not need to be current students or graduates of the University of Wisconsin to use these services. Through appointments, assessment tools, and workshops, individuals may discover a path to a more meaningful and satisfying career or identify a future educational goal.

ACSSS is also the admissions office and the academic dean's office for University Special students, which includes fifteen different categories of students who wish to enroll at UW–Madison but are not degree status students. This includes visiting undergraduates from both domestic and international colleges, and students with bachelors' degrees who wish to take courses to extend their education or to fulfill specific graduate or professional school prerequisites. There are other categories. Further detail is found at the Nondegree (<http://guide.wisc.edu/nondegree>) tab of the *Guide*.

### SUMMER TERM AT UW–MADISON

The Division of Continuing Studies provides central coordination for the summer term. Each summer, more than 13,000 students enroll in online and on-campus courses. This includes over 1,000 University Special students. Sessions vary from one to eight weeks in length. Students find summer enrollment may allow them to graduate earlier, experience innovative courses, or fulfill professional licensure requirements. Starting in late March, current UW–Madison students enroll the same way as they do for fall and spring via the enrollment module in their Student Center/MyUW. Students graduating in May or not in degree status must first seek admission as a University Special student following the steps outlined at the Nondegree (<http://guide.wisc.edu/nondegree/#typesofstudytext>) tab of the *Guide*. For more information on course offerings, sessions, housing, and summer term, see Summer Term (<http://summer.wisc.edu>) or send an email to [summer@dcs.wisc.edu](mailto:summer@dcs.wisc.edu).

### CONTINUING EDUCATION PROGRAM

Students interested in supplementing their university credit coursework will find hundreds of classes, programs, certificates, and conferences through the division's Department of Liberal Arts and Applied Studies (LAAS). The department serves lifelong learners who want to enrich their lives through classes and conferences in an array of areas including languages, music, writing, art, history, and more, and professionals who need to hone their skills, earn professional credits, and stay current on the latest research and best practices in their field. Classes are taught by

Continuing Studies instructors and professionals. The *Continuing Studies Catalog* (<http://www.catalog.dcs.wisc.edu>) is published three times a year and may be viewed online or requested from the Division of Continuing Studies, 21 North Park Street, Madison, WI 3715-1218; 608-262-1156; fax 608-265-4555; [info@dcs.wisc.edu](mailto:info@dcs.wisc.edu).

### FLEXIBLE LEARNING

The division serves a leadership role in the design and delivery of courses and programs available in accessible formats, which include evening, weekend, and online programs. Students will find a listing of learning opportunities at the Advance Your Career (<https://advanceyourcareer.wisc.edu>) website, which includes noncredit certificates, post-baccalaureate certificates, and graduate-level degrees.

For online undergraduate courses outside of the UW–Madison curriculum, UW–Extension offers UW Independent Learning (<https://il.wisconsin.edu/catalog>). The credit courses are taught by Continuing Studies faculty and staff. They are self-paced and may be started at any time. College credits may transfer to UW–Madison and apply toward a bachelor's degree. The UW System Transfer Information System (TIS) (<https://www.wisconsin.edu/transfer/wizards>) provides a chart of course transferability. However, before enrolling in Independent Learning courses, students should check with their advisor and gain academic dean's approval to make sure the chosen course is applicable to the specific degree program.

### PEOPLE

Division of Continuing Studies—faculty and staff directory (<http://continuingstudies.wisc.edu/about-us/faculty-and-staff.html>)

The full faculty and staff consists of professors and instructors, advisors, administration, marketing, and support staff. They live the Wisconsin Idea every day, providing lifelong learning, professional development, and personal enrichment to students across Wisconsin and around the world.

## GAYLORD NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES

The Institute for Environmental Studies was created in 1970 to promote and enhance interdisciplinary environmental instruction, research, and outreach at UW–Madison. In 2002, it was renamed in honor of former Wisconsin governor and U.S. Senator Gaylord Nelson, the founder of Earth Day and a lifelong champion of environmental stewardship.

The program espouses an integrated approach to learning about the environment. Students are encouraged to consider their interests, strengths, and values beyond the context of their courses and connect the subject of the environment to their other courses as well as their extracurricular experiences. The Nelson Institute is a robust environmental community in which students learn about current environmental issues, and more important, how to link environmental science, policy, literature, art, and philosophy to other fields of study. The focus on the intentional integration of their academic endeavors with their interests, skills, and values provides a powerful source of self-awareness that prepares students for success across a variety of options. Finding one's strength within this interdisciplinary approach affords students access to a wide variety of career settings and postgraduate options.

Approximately 170 faculty members from more than 50 natural and social science, engineering, and humanities departments are affiliated with the Nelson Institute, which offers scores of undergraduate-level courses in cooperation with the university's schools and colleges. The institute offers an undergraduate major and two certificates. The environmental studies major must always be done in tandem with another major on campus. Environmental studies majors have second majors in every school and college on campus, and the student population reflects the interdisciplinary focus of the Nelson Institute and its curricular offerings. All UW–Madison undergraduates are invited to consider the program.

### DEGREES/MAJORS/CERTIFICATES

- Environmental Studies, Certificate (p. 1163)
- Sustainability, Certificate (p. 1167)

The Nelson Institute also administers the Environmental Studies major (p. 604), available through the College of Letters & Science.

## ENVIRONMENTAL STUDIES

- Environmental Studies, Certificate (p. 1163)
- Sustainability, Certificate (p. 1167)

## ENVIRONMENTAL STUDIES, CERTIFICATE

### WHY CHOOSE AN ENVIRONMENTAL STUDIES CERTIFICATE?

The Environmental Studies Certificate Program allows undergraduate students at UW–Madison to explore the environmental intersections that complement their major, but with fewer curricular requirements than the major. Students completing the certificate also benefit from participation in the Nelson academic community and gain invaluable access to a network of multidisciplinary problem-solving colleagues. The certificate program is only available to UW–Madison students pursuing a bachelor's degree through the university's regular academic departments.

Completion of the certificate program is noted on a student's academic transcript.

### REQUIREMENTS

#### REQUIREMENTS FOR THE CERTIFICATE

Students are required to take five courses/15 credits to include two courses in the Foundation section and three courses in the thematic areas. A minimum of 6 credits overall must be at the intermediate or advanced level (I/A/D). A minimum GPA of 2.0 is required in certificate courses.

#### ENVIRONMENTAL HUMANITIES/SOCIAL SCIENCE (TAKE ONE COURSE)

Code	Title	Credits
ENVIR ST 112	Environmental Studies: The Social Perspective	3
ENVIR ST 113	Environmental Studies: The Humanistic Perspective	3
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
ENVIR ST/GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
ENVIR ST/A A E 244	The Environment and the Global Economy	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
ENVIR ST/ RELIG ST 270	Environment and Religion	3-4
ENVIR ST/GEOG 339	Environmental Conservation	4
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4

#### ENVIRONMENTAL PHYSICAL SCIENCE/ECOLOGY (TAKE ONE COURSE)

Code	Title	Credits
ATM OCN 100	Weather and Climate	3

ATM OCN 101	Weather and Climate	4	BOTANY 401	Vascular Flora of Wisconsin	4
ENVIR ST/ GEOSCI 106	Environmental Geology	3	BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
GEOSCI 110	Evolution and Extinction	4	BOTANY 422	Plant Geography	3
PHYSICS 115	Energy	3	ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
ENVIR ST/GEOG 120	Introduction to the Earth System	3	BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
ENVIR ST/ILS 126	Principles of Environmental Science	4	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
ENVIR ST/GEOG 127	Physical Systems of the Environment	5	BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology	4
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3	AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3	AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
BOTANY 240	Plants and Humans	3	ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics	3
ENVIR ST 250	Introduction to Sustainability Science	3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3	F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
SOIL SCI 301	General Soil Science	4	F&W ECOL 550	Forest Ecology	3
ENVIR ST/ATM OCN/ GEOG 331	Climatic Environments of the Past	3	F&W ECOL 551	Forest Ecology Lab	1
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3	ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 401	Physiological Animal Ecology	3	LAND ARC 667	Field Study: Native Plant Communities	3
F&W ECOL/BOTANY/ ZOOLOGY 460	General Ecology	4	BOTANY/F&W ECOL/ ZOOLOGY 672	Historical Ecology	2
F&W ECOL 550	Forest Ecology	3			

## THEME

- Students are required to take three courses (min 9 cr.) from the thematic areas listed below.
- Courses may be concentrated in one area or taken in multiple areas.
- Courses taken in the thematic areas cannot also be used in foundation.

**Note:** Nelson Institute topic numbers (ENVIR ST 400, ENVIR ST 401, ENVIR ST 402, ENVIR ST 404) all count in the theme portion of the curriculum. Because of the changing nature and titles of topics courses, they are not listed individually under the section headings.

## BIODIVERSITY

Code	Title	Credits
ENVIR ST/ ENTOM 201	Insects and Human Culture-a Survey Course in Entomology	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
F&W ECOL 318	Principles of Wildlife Ecology	3
GEOG/BOTANY 338	Environmental Biogeography	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology	3
ENVIR ST 375	Field Ecology Workshop	3

## CLIMATE

Code	Title	Credits
A A E 246	Climate Change Economics and Policy	3
GEOG 321	Climatology	3
ENVIR ST/ATM OCN/ GEOG 331	Climatic Environments of the Past	3
ENVIR ST/ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
ATM OCN 425	Global Climate Processes	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems	3
ENVIR ST/ ATM OCN 520	Bioclimatology	3
ATM OCN 522	Tropical Meteorology	3
GEOG/GEOSCI 523	Quaternary Vegetation Dynamics	3
GEOG/GEOSCI 527	The Quaternary Period	3
ENVIR ST/ATM OCN/ GEOG 528	Past Climates and Climatic Change	3

ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3
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## ENERGY

Code	Title	Credits
E C E 356	Electric Power Processing for Alternative Energy Systems	3
ENVIR ST/BSE 367	Renewable Energy Systems	3
ENVIR ST/N E 373	Nuclear Energy and the Environment	3
ENVIR ST/ GEOSCI 411	Energy Resources	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
M E 461	Thermal Systems Modeling	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3
ENVIR ST/A A E/ CIV ENGR/ URB R PL 561	Energy Markets	3
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3

## FOOD AND AGRICULTURE

Code	Title	Credits
FOOD SCI 120	Science of Food	3
NUTR SCI 132	Nutrition Today	3
SOC/C&E SOC 222	Food, Culture, and Society	3
HIST SCI/ C&E SOC 230	Agriculture and Social Change in Western History	3
AGRONOMY 300	Cropping Systems	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
CNSR SCI 360	Sustainable and Socially Just Consumption	3
HORT 370	World Vegetable Crops	3
AGRONOMY 377	Cropping Systems of the Tropics	3
FOLKLORE 439	Foodways	3
SOC/C&E SOC 650	Sociology of Agriculture	3

## HEALTH

Code	Title	Credits
ENVIR ST/ MED HIST 213	Global Environmental Health: An Interdisciplinary Introduction	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3

CIV ENGR 422	Elements of Public Health Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
POP HLTH/HIST SCI/ MED HIST 553	International Health and Global Society	3
CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

## HISTORY AND CULTURE

Code	Title	Credits
ENVIR ST/ENGL 153	Literature and the Environment	3
ENVIR ST/ RELIG ST 270	Environment and Religion	3-4
ENVIR ST 307	Literature of the Environment: Speaking for Nature	3
GEOG 319	Environmental Evaluation and Adaptation	3
ENVIR ST/ HISTORY 328	Environmental History of Europe	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
ENVIR ST/GEOG 339	Environmental Conservation	4
ENVIR ST/ HIST SCI 353	History of Ecology	3
ENVIR ST/HIST SCI/ LCA/RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
ENVIR ST/ LEGAL ST 430	Law and Environment: Rights and Resources	3
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
LSC/AMER IND 444	Native American Environmental Issues and the Media	3
ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4
HISTORY/ AMER IND 490	American Indian History	3-4

ENVIR ST/GEOG 537	Culture and Environment	4
ENVIR ST/GEOG 557	Development and Environment in Southeast Asia	3
BOTANY/F&W ECOL/ ZOOLOGY 672	Historical Ecology	2

## LAND USE

Code	Title	Credits
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3
GEOG/URB R PL 305	Introduction to the City	3-4
A A E/ECON/ REAL EST/ URB R PL 306	The Real Estate Process	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality	3
ENVIR ST/GEOG 325	Analysis of the Physical Environment	4
ENVIR ST/GEOG 337	Nature, Power and Society	3
BOTANY/GEOG 338	Environmental Biogeography	3
ENVIR ST/GEOG 339	Environmental Conservation	4
GEOG 344	The American West	3
BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3
CNSR SCI 360	Sustainable and Socially Just Consumption	3
ENVIR ST/ GEOSCI 410	Minerals as a Public Problem	3
F&W ECOL 410	Principles of Silviculture	3
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
LSC/AMER IND 444	Native American Environmental Issues and the Media	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
F&W ECOL/ SOIL SCI 451	Environmental Biogeochemistry	3
ENVIR ST/ F&W ECOL/ HISTORY 452	World Forest History	3
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
LAND ARC/ URB R PL 463	Evolution of American Planning	3
GEOG/URB R PL 505	Urban Spatial Patterns and Theories	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
ENVIR ST/GEOG 537	Culture and Environment	4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4

ENVIR ST/GEOG 557	Development and Environment in Southeast Asia	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
URB R PL 601	Site Planning	3
ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
LAND ARC 666	Restoration Ecology	3
LAND ARC 667	Field Study: Native Plant Communities	3
LAND ARC 677	Cultural Resource Preservation and Landscape History	3
ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3

## POLICY

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	3
POLI SCI 272	Introduction to Public Policy	3-4
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
ENVIR ST/ M H R 310	Challenges & Solutions in Business Sustainability	3
ENVIR ST/GEOG 339	Environmental Conservation	4
ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
BSE/DS 356/ LAND ARC 356	Sustainable Residential Construction	3
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2
F&W ECOL 410	Principles of Silviculture	3
ENVIR ST/ LEGAL ST 430	Law and Environment: Rights and Resources	3
ENVIR ST/GEOG 439	US Environmental Policy and Regulation	3-4
LSC/AMER IND 444	Native American Environmental Issues and the Media	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
CIV ENGR 522	Hazardous Waste Management	3
ENVIR ST/ PHILOS 523	Philosophical Problems of the Biological Sciences	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ENVIR ST/GEOG 534	Environmental Governance: Markets, States and Nature	3

ENVIR ST 539	Air Resources Science and Policy	3
ENVIR ST/C&E SOC/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST/GEOG 557	Development and Environment in Southeast Asia	3
SOC/C&E SOC 573	Community Organization and Change	3
SOIL SCI/CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
SOC/ECON 663	Population and Society	3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3

## WATER

Code	Title	Credits
ATM OCN/ GEOSCI 105	Survey of Oceanography	3-4
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
CIV ENGR 311	Hydroscience	3
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
G L E/GEOSCI 627	Hydrogeology	3-4
G L E/GEOSCI 629	Contaminant Hydrogeology	3

Certificate students may enroll in a capstone course after the majors have enrolled, and the capstone course will be allowed to count in the thematic requirement. Junior standing is required for enrollment.

## PASS/FAIL COURSES

Courses in the environmental studies major cannot be taken on a pass/fail basis.

Courses listed under more than one category in the curriculum may be used to satisfy only one category.

## ADVISING AND CAREERS

Environmental Studies students are represented in majors across campus and in most undergraduate schools and colleges. Environmental Studies certificate students should utilize the career office for their home

school as appropriate. All students, not just Letters & Science students, can also benefit from the L&S Career Services office.

## PEOPLE

A complete list of faculty and staff affiliated with the Nelson Institute is available here. (<http://nelson.wisc.edu/people>)

## SUSTAINABILITY, CERTIFICATE

### WHY CHOOSE A SUSTAINABILITY CERTIFICATE?

Perhaps the best reason for pursuing a sustainability certificate is a personal interest in learning practical skills to make a difference in the world—in your life, in your job, and in your community. Working toward a certificate offers students the opportunity to pursue interests that complement their major(s). For example, the interdisciplinary nature of sustainability encourages students to consider multiple perspectives. In doing so, this certificate provides a breadth of perspective highly applicable to complex problems, such as those we face in our communities, in our workplaces, and in our personal lives.

The Nelson Institute also offers a major and another certificate:

Environmental Studies Major (p. 604)

Environmental Studies Certificate (p. 1163)

The sustainability certificate can be added to any undergraduate major except environmental studies. Students who earn a sustainability certificate may **not** earn the environmental studies certificate or the certificate in engineering for energy sustainability.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

- A 2.00 GPA in the certificate
- 12 credits of coursework, including the capstone, drawn from the list below
- A sustainability-related community service project
- Courses taken on a pass/fail basis will not count toward the certificate.

### SUSTAINABILITY CERTIFICATE COURSES

Code	Title	Credits
<b>Select 9 credits from:</b>		<b>9</b>
ENVIR ST/ SOIL SCI 101	Forum on the Environment	
ENVIR ST/ GEOSCI 106	Environmental Geology	
ENVIR ST 112	Environmental Studies: The Social Perspective	
ENVIR ST/ GEOG 120	Introduction to the Earth System	
ENVIR ST/ILS 126	Principles of Environmental Science	

ED POL 150	Education and Public Policy (Climate Change and Sustainability Education section only)
ENVIR ST/ GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
ENVIR ST/ M H R 310	Challenges & Solutions in Business Sustainability
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts
CNSR SCI 360	Sustainable and Socially Just Consumption
ENVIR ST/ BSE 367	Renewable Energy Systems
OTM 370	Sustainable Approaches to System Improvement
C&E SOC 375	Special Topics (Human Ecology of Food and Sustainability section only)
ENVIR ST/ GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (Only selected sections)
R M I 650	Sustainability, Environmental and Social Risk Management
INTER-LS 107	First-Year Seminar in the Social Sciences and Natural Sciences

## CAPSTONE

Typically, a 3-credit capstone is also required.

Code	Title	Credits
ENVIR ST 600	Environmental Studies Major Capstone (Water in a Changing World)	3
ENVIR ST 600	Environmental Studies Major Capstone (Capstone in Soil and Water Management)	3
AGRONOMY 375	Special Topics (Systems Thinking)	3
INTEREGR 601	Topics in Interdisciplinary Engineering (Interdisciplinary Design for Energy and Sustainability - IDEAS)	3

A list of approved capstones for next semester is available here. (<http://www.nelson.wisc.edu/undergraduate/sustainability-certificate/capstone-courses.php>)

## EXCEPTIONS

Students may request to substitute a listed course with a sustainability-related course that is currently not listed. Such a request requires that students submit a written explanation of how the substitute course meets the learning outcomes of the certificate and assists them in

reaching their individual goals for taking the certificate. They must also submit a syllabus of the substitute class. The substitute request requires approval by the certificate's faculty advisor, Ann Terlaak ([ann.terlaak@wisc.edu](mailto:ann.terlaak@wisc.edu)).

## LEARNING OUTCOMES

### LEARNING OUTCOMES

Learning outcomes for students completing the sustainability certificate include the ability to:

- Set sustainability-related goals and develop strategies to implement these goals.
- Be able to use and apply concepts related to sustainability:
  - Life cycle thinking
  - Long term thinking, e.g., "Shifting baselines"
  - Sustainability frameworks, e.g., "triple bottom line"
  - Embodied resources including energy and water
  - Natural capital and biodiversity
  - Multiple-stakeholder thinking capstone
  - Climate change concepts
- Link events in time and space to perceive the connections among them
- Analyze human decisions on the basis of their impacts on natural ecosystems
- Apply energy, resource, demand and technology knowledge to value generation and use
- Describe and interpret sustainability issues from local, regional and global perspectives
- Give examples of how public policy influences decisions
- Understand climate change, adaptation and mitigation to extent necessary to support analyses, design and policy decisions

## ADVISING AND CAREERS

Nelson Institute students are represented in majors across campus and in most undergraduate schools and colleges. Sustainability certificate students should utilize the career office for their home school as appropriate. All students, not just Letters & Science students, can also benefit from the L&S Career Services office.

## PEOPLE

A complete list of faculty and staff affiliated with the Nelson Institute is available here. (<http://nelson.wisc.edu/people>)



# OFFICER EDUCATION

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

## AIR FORCE ROTC—AEROSPACE STUDIES

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

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

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

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

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

## MILITARY SCIENCE—ARMY ROTC

The Army Reserve Officers' Training Corps (ROTC) is the nation's largest leadership and management-development training program. It offers the opportunity to earn a commission as a Second Lieutenant for Active Duty, Army Reserve, or Army National Guard while pursuing an academic degree. It enables young men and women to prepare themselves to be leaders in the Army or the civilian career field of their choice. The traditional four-year Army ROTC Program is divided into a two-year Basic

Course and a two-year Advanced Course. A non-contracted student enrolled in the Basic Course does not incur a military service obligation.

## BASIC COURSE

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

The regular curriculum consists of a lecture and lab each semester. Freshmen are encouraged to take MIL SCI 101 Foundations of Officership and MIL SCI 110 Leadership Lab 1A in the fall and MIL SCI 102 Basic Leadership and MIL SCI 111 Leadership Lab 1B in the spring. Sophomores are encouraged to take MIL SCI 201 Individual Leadership Studies and MIL SCI 210 Leadership Lab 2A in the fall and MIL SCI 202 Leadership and Teamwork and MIL SCI 211 Leadership Lab 2B in the spring. Students can enroll in a lecture without enrolling in the lab, but cannot enroll in a lab without the corresponding lecture. Labs are intended to provide practical leadership experience and military skills training such as map reading, land navigation, field training, and rifle/pistol marksmanship.

## ADVANCED COURSE

Students who have completed the Basic Course or an equivalency (see Two-Year Program) and have passed all enrollment eligibility criteria continue on into the Advanced Course. This course consists of the following to include corresponding leadership labs, physical fitness training sessions, and a four-week summer camp (Cadet Leader Course) at Fort Knox, Ky.

Code	Title	Credits
MIL SCI 301	Leadership and Problem Solving	2
MIL SCI 302	Leadership and Ethics	2
MIL SCI 401	Leadership and Management	2
MIL SCI 402	Officership	2
MIL SCI 491	American Military History	3

During labs and physical training sessions students are provided practical leadership opportunities to prepare them for summer camp and their future military careers. Students normally attend summer camp between their junior and senior years of Military Science. Students must complete all components of this course to earn a commission.

## TWO-YEAR PROGRAM

Students who are veterans, members of the Army National Guard/Army Reserve, or who have participated in the Junior Reserve Officers' Training Corps Program in high school may qualify for direct entry into the Advanced Course. Students who did not complete the ROTC Basic Course (see above), but have two years of academic study remaining may be eligible to attend the Cadet Initial Entry Training. This course compresses two years of the Basic Course into four weeks and is held at Fort Knox, KY during the summer. Students who believe they qualify for this program should consult with the Scholarship & Enrollment Officer for more information.

## SCHOLARSHIPS

Qualified students may compete for Army ROTC scholarships ranging from two to four years in duration. Students must be enrolled and

participating in Army ROTC to be eligible for scholarships. Scholarships are merit based and pay full tuition & fees (both in and out-of-state) or room and board (capped at \$5,000/semester) but not both, \$600/semester for textbooks and laboratory expenses, and a tax fee subsistence stipend of \$300–\$500 for each month of the regular school year depending on Military Science level. Interested students should consult with the Scholarship & Enrollment Officer for more detailed information concerning the scholarship eligibility requirements. For additional information about Army ROTC, students may contact Josh Beyerl in the Department of Military Science, 1910 Linden Drive, 608-262-3411, armyrotc@mailplus.wisc.edu.

The naval science curriculum is designed to prepare college students to become commissioned officers in the Navy or Marine Corps. Naval Science courses are normally taken for academic credit as part of a student's free electives. Enrollment will be in one of the following categories.

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## NAVAL SCIENCE

### NROTC SCHOLARSHIP STUDENTS

High school students compete nationally for a four-year scholarship and, if selected, receive full tuition, books, uniforms, and a monthly stipend. Obligated military service is incurred at the beginning of the sophomore year. Applicants must meet established age, physical, mental and other requirements.

### NROTC COLLEGE PROGRAM STUDENTS

College program students are selected by the Professor of Naval Science from undergraduates requesting to participate in the program. College freshmen or sophomores may compete nationally for 3- or 2-year scholarships, respectively. Participation and excellent performance in the NROTC program will likely improve the chances of receiving a scholarship. Applicants must meet established age, physical, mental and other requirements. College program students must be selected for scholarship or a commission guarantee to continue in the Naval ROTC program past their sophomore year.

### MARINE CORPS INSTRUCTION

Students who desire to become Marine officers take NAV SCI 350 Amphibious Campaigns and NAV SCI 351 Land Campaigns in lieu of NAV SCI 301 Naval Engineering and NAV SCI 302 Naval Weapons. These courses are typically offered every other year.

## PEOPLE

**Air Force ROTC—Aerospace Studies:** Professor Lt Col Goar; Assistant Professor Capt Paeth

**Military Science—Army ROTC:** Professor Lieutenant Colonel Blue; Enrollment Officer: Josh Beyerl

**Naval Science—**Professor Murdoch; Associate Professor Barrett; Assistant Professors Dryden, Ebert, Simonds. The assistant professors act as undergraduate advisors and may be contacted through the department office.

## SCHOOL OF BUSINESS

The School of Business (<http://www.bus.wisc.edu>) attracts talented, energetic, creative students who are known for their strong work ethic and technical capabilities. Undergraduate students in the Wisconsin Bachelor of Business Administration (BBA) Program ([https://wsb.wisc.edu/programs-degrees/undergraduate-bba?\\_ga=1.242357250.1617918104.1481300313](https://wsb.wisc.edu/programs-degrees/undergraduate-bba?_ga=1.242357250.1617918104.1481300313)) experience innovative coursework directed by leading scholars in business. They have opportunities to connect with outstanding alumni for applied learning, mentoring, and general life-experience lessons. Students also enjoy access to an unlimited array of activities, clubs, and life-changing opportunities.

In 1900, UW–Madison established one of the first six commerce programs in the country, beginning as a department in the College of Letters and Science, and receiving separate school status by a 1944 act of the Wisconsin Legislature. The School of Business was a founding member of Beta Gamma Sigma (<https://www.betagamma.org>), a national professional business honor society and the Association to Advance Collegiate Schools of Business (AACSB) (<http://www.aacsb.edu>), the standard-setting organization for collegiate business education. The School's undergraduate and graduate programs were reaccredited by the AACSB in 2017.

### EXPERIENCE A HIGH-CALIBER UNDERGRADUATE BUSINESS EDUCATION

The University of Wisconsin–Madison is a world-class university, nationally and internationally recognized for academic excellence, incredible students, and inspiring faculty. As a student in the undergraduate business program, you will have access to the academic and co-curricular resources of the entire university, combined with the personalized experience of being a Business Badger. It's like having the best of both worlds.

The curriculum for the Wisconsin BBA Program incorporates a foundation in the liberal arts with a business education, including focused coursework in ten majors. The liberal arts foundation—including courses taken outside of the School of Business—develops your skills in thinking critically, analyzing problems, generating creative solutions, communicating effectively, and working in diverse teams. These are all skills top employers seek when filling positions with strong potential for advancement.

Ten undergraduate business majors are offered, giving you the specialized knowledge you need to begin a great career. You will graduate with skills gained from top-notch faculty and real-world learning experiences. It all adds up to an educational experience that prepares you for career success. The School of Business also offers a certificate in business, a certificate in entrepreneurship, and a capstone certificate in actuarial science. There are also opportunities for further education through our graduate, master's, and doctoral programs.

### PREPARE FOR LEADERSHIP AND GAIN PERSONAL SKILLS

The Wisconsin BBA Program gives you far more than an academic experience. We offer a comprehensive business education that equips

you to have an impact as a business professional, a volunteer, a leader in your community, and a future mentor and role model to others.

Employers value specific characteristics in their new hires, including leadership skills, confidence, communication skills, ethical decision-making, and experience working in diverse teams. Top companies come to the School of Business to recruit year after year because they find these qualities in Business Badgers.

### ONE-OF-A-KIND PROGRAMS

The School of Business has created groundbreaking programs to support the development of leadership, personal, and professional skills in our BBA students.

#### THE ACCENTURE LEADERSHIP CENTER

The Accenture Leadership Center (ALC) was one of the first in-house leadership centers at a U.S. business school. Today, it continues to be student-driven and alumni-supported. The center offers a variety of activities, classes, workshops, and leadership training events, including LeaderShape Institute, a six-day, intensive, leadership training. Wisconsin BBA students graduate with the confidence, self-awareness, and professional skills to lead and inspire others.

#### CHART YOUR PATH WITH THE COMPASS PROGRAM™

Unique to the School of Business, The Compass Program is a multi-year program designed to help you chart your own path to success in the BBA program and beyond. Every Wisconsin BBA student completes this program, which supports personal, academic, career, and professional growth, as well as the development of leadership skills. Both curricular and co-curricular components are incorporated.

The Compass Program will equip you with a portfolio of business-ready skills and a clear understanding of your individual values and strengths. You will have the leadership abilities, communication skills, and professionalism needed to be a well-rounded business leader.

If you want to make a positive contribution to the world around you, both in your career and beyond, The Compass Program will empower you to get there.

## DEGREES/MAJORS/CERTIFICATES

### MAJORS, SPECIALIZATIONS, CERTIFICATES, AND OTHER PROGRAMS

- Business, Certificate (p. 1190)
- Business: Accounting, BBA (p. 1181)
- Business: Actuarial Science, BBA (p. 1184)
- Business: Finance, Investment, and Banking, BBA (p. 1204)
- Business: Information Systems, BBA (p. 1217)
- Business: International Business, BBA (p. 1192)
- Business: Management and Human Resources, BBA (p. 1207)
- Business: Marketing, BBA (p. 1214)
- Business: Operations and Technology Management, BBA (p. 1220)
- Business: Real Estate and Urban Land Economics, BBA (p. 1223)
- Business: Risk Management and Insurance, BBA (p. 1187)
- Entrepreneurship, Certificate (p. 1211)
- Health Care Management, Specialization (p. 1191)

- Supply Chain Management, Specialization (p. 1202)

## ADDITIONAL MAJOR IN LETTERS & SCIENCE

With approval from both the business academic dean's office and the appropriate L&S academic department, business students may complete one L&S major in addition to a business major. Interested students should visit this website (<http://bus.wisc.edu/bba/mybiz/academics/academic-policies-procedures/#Letters%20and%20Science%20Major>).

The Certificate in Spanish Studies for Business Students (p. 1098) is available through the College of Letters & Science.

## PEOPLE

### WISCONSIN BBA STAFF ADMINISTRATION

**Cindy Johnson**  
Program Coordinator  
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### ADMISSIONS AND PRE-COLLEGE PROGRAMS

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**Mandi Moy**  
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### ACADEMIC ADVISING

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## ENTERING THE SCHOOL

### A STUDENT-CENTERED ADMISSIONS PROCESS

The School of Business boasts a student body that is focused and engaged. Our highly talented undergraduate students, in turn, attract recruiting employers who return to Wisconsin year after year to fill internships and full-time positions.

Although the Wisconsin BBA Program is competitive, we do everything we can to help you prepare for the admissions process. The School of Business strives for a great fit between applicants and what we have to offer. Our focus is on partnering with you to help you make the best choice for your future.

There are three different admission paths to the Wisconsin BBA Program. There are separate admissions processes for students who are already enrolled at the University of Wisconsin–Madison and for transfer students. The right choice for you depends on your current goals and where you are in your journey to becoming a Business Badger.

For more information about these options including step by step directions for navigating the admissions processes, qualities the Wisconsin BBA Program is looking for in applicants, and tips for submitting a competitive application, please visit the Wisconsin BBA Program website (<https://wsb.wisc.edu/programs-degrees/undergraduate-bba/admissions>).

Transfer applicants should visit the School of Business website to determine which process fits their situation. <https://wsb.wisc.edu/programs-degrees/undergraduate-bba/admissions/transfer-students>

*Questions along the way? We're here to help. Reach out to a Wisconsin BBA Student Ambassador or contact the BBA Program Office.*

## WISCONSIN EXPERIENCE

### INTEGRATE CLASSROOM LEARNING WITH DIRECT EXPERIENCE

Wisconsin BBA students are expected to apply learning inside and outside the traditional classroom in ways that have a positive impact on the world. Known as the Wisconsin Experience, this principle draws upon opportunities ranging from conducting research to embracing entrepreneurship to developing multicultural competence. By applying classroom learning in both curricular and co-curricular settings, you will build your résumé and gain practical experience in using your business skills.

## POLICIES AND REGULATIONS

School of Business students as well as pre-business students are responsible for being familiar with the policies that affect them. School of Business policy is subject to change, so be sure to review this website for the most up-to-date information. Questions related to policy interpretation can be directed to your academic advisor for clarification. Please note that pre-business students are subject to the academic policies and procedures of their current school/college. **In addition to the academic-related policies below, we strongly encourage prospective/pre-business applicants to review all admission policies listed on the Wisconsin BBA Admission Policies (<http://bus.wisc.edu/bba/admissions/Policies>) page.**

## COURSES/ENROLLMENT

### BUSINESS CREDIT LIMIT

Undergraduate students may not take more than 75 credits of School of Business courses.

### GRADUATION

The School of Business will graduate a student at the end of the semester (spring, summer or fall) in which all BBA degree and business major requirements are complete. Graduation will not be postponed for any incomplete School of Business certificate(s), specialization(s), or honors program(s); or additional certificate(s) or major(s) outside the School of Business.

### NO-CREDIT COURSES

The School of Business does not award credit for a small number of courses offered at the University of Wisconsin-Madison. Students who take these courses and are subsequently admitted to the School of Business will have the credit removed upon admission. This list is specific to students admitted to the School of Business and is in addition to all applicable university credit policy.

#### **The list of no-credit courses is as follows:**

- Failed courses (grade of "F")
- Repeated courses (except where a repeat is allowed)

- Courses for which a student may not receive credit because of a previously completed course (as indicated in the Course Guide)
- ACCT I S 300 Accounting Principles
- I SY E 313 Engineering Economic Analysis
- CNSR SCI 275 Consumer Finance
- CNSR SCI 665 Household Risk Management

Being enrolled in any of the above courses could impact your application to the School of Business. Before enrolling in and taking any of the above courses, please consult your academic advisor.

## PART-TIME ENROLLMENT

To maintain full-time standing, students must be enrolled in 12–18 credits.

Undergraduate students who are considering dropping below full time (less than 12 credits) should make sure they know how it will affect their status. Students are responsible for knowing how part-time status will affect them. Below are some of the more common scenarios to explore before dropping credits:

### International Students:

Dropping below full time as an international student can have serious consequences, up to and including deportation. Please be sure to check with the International Student Services Office before dropping below 12 credits.

### Scholarships, Grants, and Other Awards:

Depending on the conditions of the scholarship, a student may be required to be full time in order to remain eligible for an award. Be sure to check the stipulations for any awards you have received.

### Financial Aid:

Be sure to check with the Office of Student Financial Aid to find out if being part time will affect your financial aid package.

### Tuition Refunds:

Depending on when the credits are dropped, you may be eligible for a tuition refund. Check the registrar's website for information about refund deadlines.

### Athletes:

Varsity athletes are governed by Big Ten and NCAA rules that do not allow them to drop below full time. Be sure to check with your coach and athletic advisor before dropping below 12 credits.

### Degree Completion:

Taking fewer credits or courses than anticipated may delay your graduation. Be certain that if you drop a course, you will still be able to complete all required courses within your desired timeline. If you are not sure, please see your academic advisor.

## PASS/FAIL

The university pass/fail policy can be found here ([http://apir.wisc.edu/uapc/2014-15/UAPC2015021906\\_PassFail.pdf](http://apir.wisc.edu/uapc/2014-15/UAPC2015021906_PassFail.pdf)).

Undergraduate business students who are in good academic standing (i.e. not on probation) may take only one (1) course as pass/fail per semester including the summer session. A maximum of 16 total credits may be completed as pass/fail to count toward completion of the 120 degree credits required for the BBA.

The pass/fail privilege is for a non-business elective course. The following courses cannot be taken pass/fail:

- All business courses including those designated as “meets with,” “cross-listed,” and those taken during study abroad programs
- Any requirement for the business major or degree, including, but not limited to, pre-business and liberal studies requirements

Note: It is the responsibility of the student to check requirements and policies for non-business majors and certificates prior to requesting the pass/fail privilege.

The pass/fail grade will not be included when computing your GPA, but the pass/fail credits with S (Satisfactory) grades will apply toward graduation. S is the grade for A to C; U (Unsatisfactory) is the grade for D and F.

Students must complete a minimum of 12 graded credits each semester in order to be eligible for the dean's list.

In order to apply for the pass/fail privilege, students must submit an online request by following the directions below:

- Sign in to your My UW page, and click on the Student Center link.
- Click on Course Enrollment on the left hand side under Academics.
- Select the upper right hand tab entitled “term information.”
- Click on Course Change Request.
- After you select the term, you will see a list of your current courses.
- Check the box to the left of the course that fulfills the non-business elective course requirements as seen above. A list of options will appear.
- Select the “Add Pass/Fail” box.
- Please disregard the message that says “print and obtain necessary signatures to complete this process.” You do not need to do this.
- Scroll down and click Save.
- Your request is then sent directly to the BBA Advising Center. You will be notified by email whether or not your request has been approved.

Please complete the online pass/fail form by the deadline. See the O (<http://www.registrar.wisc.edu>)ffice of the Registrar website (<https://registrar.wisc.edu>) for deadline information.

Once the student has submitted the form, the course may not be changed from pass/fail back to a conventionally graded course. Once a pass/fail grade is recorded as S or U, it cannot be changed to a letter grade.

## PHYSICAL EDUCATION/DANCE/KINESIOLOGY

Students are allowed a total of 8 degree credits of physical education/dance/kinesiology toward a BBA degree.

## REPEATING A COURSE

Per university policy, students may repeat (retake) courses to improve their letter grade. There are several reasons, however, why repeating courses is rarely advised unless a grade of “F” is earned.

- Students may not receive degree credit more than once for most courses.
- Previous grades are not erased—both grades are included in the cumulative grade point average. The original grade will remain on the transcript (along with the second grade earned).
- Credits carried on courses being repeated count toward the maximum credits permitted in a semester.

- There is no guarantee that a student's grade will improve by repeating a course.
- Progress toward graduation is not made when courses are repeated.

## RESIDENCY FOR DEGREE

Students admitted to the Wisconsin BBA at UW–Madison who transfer from another college or university must complete a minimum of 30 credits in business courses. These courses must be offered by the School of Business and taken as a UW–Madison student to satisfy degree requirements for the BBA. Students can use a maximum of two courses taken at another school to satisfy requirements of the Wisconsin BBA major that are not part of the Wisconsin BBA core. Individual departments may have a more restrictive policy on transfer courses.

## WITHDRAWAL

A student who finds it necessary to withdraw during a semester or summer session must drop all their courses and complete the online withdrawal request in the Student Center. Failure to do so may result in a recording of Failure for all courses and a "may not continue" action. Any student may withdraw with permission and without grades being recorded at any time up to the last three weeks of a semester or up to the last two weeks of a summer session.

## EXAMS

### FINALS

#### General Info/Schedule:

Final exam times are automatically assigned for both fall and spring semesters. Final exam times can be found in the Student Center at MyUW.

#### Make-Up Final Exams:

Make-up exams may not consist of more than 10% of the total number of students enrolled. If an instructor needs to give a make-up to more than 10% of students enrolled, they must obtain the dean's written approval.

#### Student Conflicts:

Students should attempt to avoid having more than two exams within 24 hours. If a student has more than two exams in 24 hours, the instructor may—but is not required to—offer a make-up final exam or allowable alternative. However, if a student has two exams at the same time and date, one instructor must offer a make-up final exam or allowable alternative.

## MIDTERMS

The department chairs have approved this midterm policy.

The School of Business discourages giving exams outside of regularly scheduled class periods. Exams given outside class—for example, in the evenings—inevitably create conflicts for students who are taking other classes at that time. This problem with conflicts is getting more common as departments are using all available times—especially late in the afternoon and evenings—for scheduling classes.

Exams must be scheduled for either 5:30-7 p.m. or 7:15-9:15 p.m. This allows students with classes that end at 5:15 to make the exam. Any exam longer than 90 minutes should be given in the 7:15-9:15 p.m. time period to conform to university policy. This policy is consistent with the out-of-class exam policy passed by the faculty senate on May 10, 1982.

Any student that has another class that meets at the time the out-of-class exam is scheduled must be given the opportunity to take a make-up at a time convenient for the student.

Instructors of daytime courses who plan to give evening mid-term exams must footnote such intentions in the Schedule of Classes so students will be aware of potential conflicts with evening courses or other commitments. If the possibility of evening exams is not mentioned in the Schedule of Classes, it is usually not a good idea to try to schedule one unless every student agrees. If any conflicts arise, instructors who schedule evening exams should accommodate students with unavoidable conflicts. Whenever possible, times and/or days of evening exams should also be footnoted.

#### Student Conflicts:

Students should attempt to avoid having more than two exams within 24 hours. If a student has more than two exams in 24 hours, the instructor may—but is not required to—offer a make-up exam or allowable alternative. However, if a student has two exams at the same time and date, one instructor must offer a make-up exam or allowable alternative.

## GRADES

### ACADEMIC PROBATION

Students admitted to the School of Business must maintain all of the following GPA minimums:

- 2.00 cumulative GPA on all UW–Madison coursework
- 2.00 semester GPA for each semester
- 2.00 GPA on business/economics coursework
- 2.00 GPA on all coursework taken since admission to the School of Business

Failure to meet any of these standards will result in probationary status.

A student will be cleared of probationary status at the end of the semester or summer session when all of the above conditions are met and the student's record contains no grade of incomplete.

Students continuing on probation for a second, consecutive semester will be placed on strict probation. Students who are not removed from strict probation after one semester will be dropped from enrollment in the School of Business (and UW–Madison) for one semester. Students whose GPA places them in dropped status may reapply on probationary status (after a one-semester hiatus) if they can demonstrate the ability and desire to devote sufficient energy to scholastic work. To reapply, students may complete a reentry application through the Office of Admissions and Recruitment.

GPA deficiencies causing probationary status cannot be removed through coursework at another university or through correspondence study.

### DEAN'S LIST

Business students who achieve a grade point average of 3.75 for any semester in which they complete 12 graded degree credits will have their names on the dean's list. A permanent record of this achievement is entered on the student's transcript. Students with I, P, or U on their grade report will automatically be ineligible for the dean's list. Subsequent academic action may change eligibility.

## GRADE APPEAL

If a student is dissatisfied with a grade received in a School of Business course, the following procedure must be followed should the student wish to appeal the grade.

1. The student will first discuss the grade appeal with the instructor of the course.
2. If the student and instructor cannot come to an agreement, the student will provide a formal written request for grade appeal to the associate dean in charge of the relevant program. The written request must include the class, instructor, grade received, date and conclusion of meeting with instructor, and the specific reason(s) for appealing the grade.
3. The associate dean will forward the appeal request to the chair of the department which houses the course in question. The department chair will perform the due diligence necessary (including, but limited to, meeting with the instructor and student) to assess the merits of the appeal request and will provide a decision in writing to the associate dean.
4. The associate dean will communicate the decision to both the student and instructor.
5. Should the student wish to appeal the decision further, the associate dean will perform the due diligence necessary (including, but limited to, meeting with the chair, instructor, and student) to assess the merits of the appeal request. The associate dean has the discretion to review not only the process that was undertaken in the first review, but also the earlier decision. The associate dean will provide a decision in writing to the chair, instructor, and student.
6. The instructor will take action if needed.

## GRADING POLICY

### Effective Fall Semester 2009:

Core Classes: The mean grade should be no higher than 3.0 in the following undergraduate classes:

1. ACCT I S 100 Introductory Financial Accounting
2. GEN BUS 301 Business Law, GEN BUS 303 Business Statistics, ACCT I S 211 Introductory Managerial Accounting, FINANCE/ ECON 300 Introduction to Finance, MARKETNG 300 Marketing Management, M H R 300 Managing Organizations, OTM 300 Operations Management, R M I 300 Principles of Risk Management
3. Exempt from this requirement is GEN BUS 300 Professional Communication
4. Non-Core Classes: For all other undergraduate courses with class numbers below 600 and 15 or more students enrolled, the mean grade should be no higher than 3.3 and the maximum percentage of A's is 30%.

## GRADUATING WITH DISTINCTION

The Office of the Registrar compiles a preliminary list of business students eligible for distinction. These students are eligible to wear an honors stole with their commencement attire. The BBA Advising Center will notify eligible students via email 2-3 weeks before the commencement ceremony.

Distinction is awarded to graduated business students who meet the following criteria:

- At least sixty (60) credits earned (in residence) at UW–Madison

- A cumulative UW–Madison GPA in the top twenty percent (20%) of the graduating business class

Please note that students on the preliminary list for distinction may or may not receive distinction. The distinction designation is subject to change and is dependent upon official graduation date (semester), number of students graduating, and final grade calculations, including last semester and in-progress courses.

Students who graduate with distinction are eligible to wear a cardinal stole with their commencement attire. The stoles can be obtained from the University Bookstore with a deposit and do not need to be ordered in advance. More information on graduation attire can be found on the site of the Secretary of the Faculty.

“Graduated with Distinction” is notated on official transcripts only.

## INCOMPLETE POLICY

An incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond his/her control, has been unable to take or complete the final examination or to complete some limited amount of term work. An incomplete is not given to a student who stays away from a final examination unless the student proves to the instructor that he or she was prevented from attending as indicated above. In the absence of such proof, the grade shall be F; even with such proof, if his/her work has convinced the instructor that he/she cannot pass, the grade shall be F.

If an admitted business student earns an incomplete, the work for that course must be completed by the end of the student's next semester in residence (exclusive of summer sessions). Incompletes incurred in the last semester of residence may not be removed after five years of absence from the university without special advance permission of the associate dean. Such incompletes must remain on the record with grades of PI and do not lapse into failures.

See the Office of the Registrar's website (<http://registrar.wisc.edu/incompletes.htm>) for the full incomplete policy, including the policy for students in other schools/colleges.

## MAJOR DECLARATION LETTERS AND SCIENCE MAJOR

Business students may declare one additional major in the College of Letters & Science. Additional majors in a school/college other than the School of Business or College of Letters & Science may not be declared. Business students who gain approval to complete an additional major in L&S must complete major requirements prior to or concurrently with their business major/degree. Students who have fulfilled the major and degree requirements for the BBA will be graduated, even if L&S major requirements have not been completed.

### To declare a second L&S major:

Meet with the major advisor in the College of Letters & Science and complete the major declaration form or other document students use to declare a major in the department. The form or document must have L&S academic advisor's signature, and it must be filled out completely. Deliver the completed form to the BBA Advising Center (3150 Grainger Hall). Incomplete or inaccurate forms will not be processed. You will be notified via email if the form is incomplete or if your request has been approved.



Meet regularly with your School of Business academic advisor and College of Letters & Science major advisor regarding major and/or degree requirements.

### To cancel a second L&S major:

Students interested in cancelling their L&S major must go to the department to undeclare their additional major. Usually students must fill out a Major Declaration/Cancellation Form provided by the department advisor. The form must be signed and dated by both the student and a representative of the major department. The form must include the name, phone, and email address of the departmental faculty or staff advisor associated with the major. Turn the original form in to the BBA Advising Center (3150 Grainger Hall).

## SCHOOL OF BUSINESS MAJOR

All students admitted to the School of Business are required to declare a major before or upon the completion of 86 credits (including credits from transfer, AP, test, study abroad, or retroactive credits). Business students may declare or cancel any of the 10 majors offered by completing the **major declaration form**.

Students interested in declaring a certificate or specialization offered through the School of Business should follow the procedures outlined on the Certificates and Specializations page for the appropriate program.

Please note that first-year students **will not** receive an enrollment hold in their first two semesters on the UW–Madison campus. In addition, first-semester transfer students will also not receive an enrollment hold.

## COURSES AT OTHER INSTITUTIONS

### COMMON GUIDANCE FOR OFF-CAMPUS COURSEWORK

Wisconsin BBA students are advised to take no more than two courses in their major (or per major if pursuing multiple majors) off-campus. This guidance includes courses taken for transfer credit at another accredited institution as well as courses taken on a School of Business or UW–Madison-sponsored study abroad program. Due to the international emphasis of the major, there is no limit on the number of courses taken towards the International Business major while on a School of Business or UW–Madison-sponsored study abroad program. The academic departments of the School of Business strongly recommend that all BBA students complete the core or initial course in their major(s) on campus.

While BBA students are able to take courses off-campus, the BBA Program reminds students that they should plan to complete all prerequisites for any off-campus course, regardless of its place in the BBA curriculum, prior to taking the course off-campus. Attention to these prerequisites is crucial to ensuring BBA students are prepared for their coursework whether it is taken on or off campus. Advance academic planning is an integral part of a student's success and ability to remain on track to graduate.

### CONCURRENT ENROLLMENT

School of Business students are not allowed to enroll concurrently at other accredited post-secondary institutions during any term in which they are enrolled at UW–Madison (fall, spring). This includes enrollment in online, distance education, and physical attendance classes (exceptions may be made for UW–Extension/Independent Learning—see below). Please be aware that if you are taking a course at another university that begins in the summer and continues through the fall and/or spring semester, it will fall into this category of concurrent enrollment, regardless of when the course will be completed.

Students are permitted to enroll in more than one university during summer sessions only.

If it is discovered that a student violated the above policy, this credit will be removed from the student's record. It is the responsibility of the student to verify with their academic advisor that they are not in violation of this policy.

## INDEPENDENT LEARNING

**UW Independent Learning** (UW IL) is a branch of UW Extension that offers online and print-based courses. Courses taken through UW Independent Learning are considered **concurrent enrollment** and require special permission to enroll in the fall, spring or summer.

Students interested in taking a course through UW IL should meet with an academic advisor. If the advisor and student agree this is a good option the student should follow these steps to request permission for concurrent enrollment and request a tuition waiver (if applicable). Forms should be returned to 3150 Grainger.

- Fill out a **Petition/Special Consideration Request** requesting permission for concurrent enrollment with UW Independent Learning. Be sure to include which class you intend to take.
- Students with full time status at UW–Madison may request a **tuition waiver** for UW Extension Independent Learning Courses provided that the following conditions are met:
  - The student requests the waiver and enrolls in the course by the UW–Madison add deadline (second Friday of the semester).
  - The course is taken during the regular academic session.
  - The course is completed during the term for which the tuition waiver is requested.
  - The student does not exceed 18 credits total between the two campuses.

Students are responsible for the \$75 administrative fee for enrolling in a UW IL course.

The minimum length of time to complete an IL course is typically three months. Foreign language courses often require more time. Students should take this into consideration as they are planning the completion of their degree.

## TRANSFER CREDITS

UW–Madison students may choose to take courses off campus during the summer and potentially transfer credit to UW–Madison. The UW–Madison Office of Admissions handles all transfer course equivalencies. Please note that UW–Madison students may not take courses at another institution during the fall or spring semester if they are concurrently taking courses at UW–Madison (see **concurrent enrollment policy**). Students may take no more than one course off-campus during winter recess provided the winter term does not conflict with the UW–Madison fall or spring terms. Students interested in earning transfer credit for a **non-UW study abroad program** must work with UW–Madison's International Academic Programs well in advance.

It is highly recommended that students do not take a course unless they know in advance that it will transfer to UW–Madison for credit.

### Transferring courses from a Wisconsin public or technical college?

Use the **Transfer Information System** to determine course equivalencies.

### Transferring courses from select technical colleges in Minnesota and Illinois?

Use the **Transfer Equivalency Database** to determine course equivalencies from common feeder technical colleges in neighboring states.

### Transferring courses from any other institution?

The UW–Madison Office of Admissions offers a **Summer Course Equivalency Service** to students who wish to submit courses for transfer equivalency prior to taking a course off campus.

### Transfer Credit Process

- Review your DARS report and consult your academic advisor to see what you still need to take and whether the course(s) would be a good option to take at another institution over the summer. It is not advised to take your business major courses off campus.
- Research course options at the institution where you plan on taking the course(s).
- Determine equivalency (use resources listed above).
- Apply as a “special” or “guest” student at the institution you plan on attending.
- Enroll in the course and pay tuition directly to the institution you are attending.
- After the course is complete, have the institution send an official transcript to the UW–Madison Office of Admissions and Recruitment (702 West Johnson Street, Suite 1101, Madison, WI 53715-1007).

## REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business.

## PRE-BUSINESS REQUIREMENTS

The following requirements are for students who began coursework at any institution in summer 2008 and after. Students who began coursework before summer 2008 should consult their academic advisor.

Students need to complete or be in the process of completing these courses in order to apply to the School of Business (with the exception of Direct Admit Students (p. 1173)).

Code	Title	Credits
<b>Communication Part A</b>		
Complete one course designated Communication Part A, preferably:		0-3
COM ARTS 100	Introduction to Speech Composition	
ENGL 100	Introduction to College Composition	
ESL 118	Academic Writing II	
Completion of Communication Part A based on UW Placement Test		
<b>Economics</b>		
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics-Accelerated Treatment	4
<b>Psychology</b>		
Select one of the following:		3-4
PSYCH 202	Introduction to Psychology	

PSYCH 201	Introduction to Psychology	
PSYCH 281	Honors Course-Introduction to Psychology	
<b>Calculus</b>		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
Total Credits		12-16

## LIBERAL STUDIES REQUIREMENTS

Liberal studies requirements must be completed prior to graduation. **Students may not use a single course to fulfill multiple requirements.**

Code	Title	Credits
<b>Communication Part B</b>		
Select one 3 (or more) credit course designated Comm B (b)		3-4
<b>Literature</b>		
Select one 3 (or more) credit course designated Literature (L)		3
<b>Science</b>		
Select six credits designated Biological, Natural, or Physical Science (B, N, or P). Courses with W, X, or Y designators, or courses in computer science, math, statistics, and the School of Business WILL NOT satisfy the science requirement		6
<b>Foreign Language</b>		
Select 3 units (or more) of the same foreign language <sup>1</sup>		0-12
<b>Ethics</b>		
Select one of the following:		3-4
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
<b>Humanities</b>		
Select one 3 (or more) credit course designated Humanities (H or Z) <sup>2</sup>		3
<b>Ethnic Studies</b>		
Select one 3 (or more) credit course designated Ethnic Studies (e)		3
<b>Social Science</b>		
Select one 3 (or more) credit course designated Social Science (S or Z)		3
<b>Advanced Math/Statistics</b>		
Select one of the following: <sup>3</sup>		3-4
GEN BUS 307	Business Analytics II	
STAT/MATH 310 or STAT 312	Introduction to Probability and Mathematical Statistics II Introduction to Theory and Methods of Mathematical Statistics II	

ECON 410	Introductory Econometrics	
Total Credits		27-42

<sup>1</sup> One unit of foreign language equals one high school year or one college semester. Therefore, some students may have this requirement satisfied upon matriculation if they took 3 or more years of the same language in high school.

<sup>2</sup> **Note:** If a student completes an additional Literature (L) course, this requirement will be satisfied

<sup>3</sup> This requirement also satisfies a business prep requirement (more information about this is below), which is required of all business students.

## BUSINESS FOUNDATION REQUIREMENTS

All degree candidates in the Wisconsin BBA are required to complete foundation courses in business and economics. The foundation courses, in conjunction with a broad educational base, are designed to integrate the student's specialized training with an understanding of the structure and functions of business and its role in the larger social system. Business foundation courses make up the business preparatory, core, and breadth requirements. During the first semester after admission to the School of Business, students must complete a one-credit course that is the foundation of the Compass Program™.

## BUSINESS PREPARATORY REQUIREMENT

Preparatory business requirements are typically taken within the first two semesters after admission to the Wisconsin BBA.

All students must take the following:

Code	Title	Credits
GEN BUS 120	Personal and Professional Foundations in Business <sup>1</sup>	1
or GEN BUS 130	Personal and Professional Foundations in Business	
GEN BUS 300	Professional Communication	3
ECON 102	Principles of Macroeconomics	4
or ECON 111	Principles of Economics-Accelerated Treatment	
ACCT I S 100	Introductory Financial Accounting	3
ACCT I S 211	Introductory Managerial Accounting	3
Business Analytics (options for this are found below)		6-9
Total Credits		20-23

<sup>1</sup> Direct Admit Students take GEN BUS 365 (Direct Admit - LEAD class) during their first semester instead of GEN BUS 120 or GEN BUS 130. The LEAD course is 3 credits and also satisfies one Business Breadth Requirement.

## BUSINESS ANALYTICS REQUIREMENT <sup>1</sup>

The business analytics requirement is part of the business prep courses, but has 3 options to choose from. Most students complete Option 1. GEN BUS 306 & GEN BUS 307 should be taken as soon as possible and in subsequent semesters. Actuarial science and economics majors will fulfill Option 2 or 3. Number of credits for this requirement varies between options:

Code	Title	Credits
<i>Option 1:</i>		

GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	6
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*Option 2 (Actuarial Science Majors ONLY):*

This is a 3-course sequence. Choose one course from each of the three options: 9

MATH/STAT 431	Introduction to the Theory of Probability	
or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I	
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	

STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	

ACT SCI 654	Regression and Time Series for Actuaries	
or ACT SCI 655	Health Analytics	

*Option 3 (Economics Double Majors ONLY):*

ECON 310 & ECON 410	Statistics: Measurement in Economics and Introductory Econometrics	8
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<sup>1</sup> The second course of each sequence (GEN BUS 307, ECON 410, STAT/MATH 310, or STAT 312) also satisfies the advanced math requirement from Liberal Studies Requirements.

## BUSINESS CORE REQUIREMENT

Students in the Wisconsin BBA must complete the preparatory business requirements (above) and at least two Core Business courses prior to enrolling for Advanced Business Courses. All Core Business courses should be completed by the end of a student's junior year. Advanced business courses are all courses at the 300 level or above, and we require all students to take four:

Code	Title	Credits
FINANCE/ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
OTM 300	Operations Management	3
Total Credits		12

### Business Breadth Requirement

The Business Breadth Requirement includes Business Law, and two Breadth Courses that are outside of a student's major in a different business major department.

Code	Title	Credits
GEN BUS 301	Business Law	3
Business Breadth Course <sup>1</sup>		3
Business Breadth Course <sup>1</sup>		3
<b>Total Credits</b> <sup>2</sup>		3-9

<sup>1</sup> Students must complete two business courses (3 credits each) that are outside their major area from two separate School of Business departments. Courses taken to satisfy this requirement may not include preparatory or core courses, courses required by or cross-

listed with the student's major, general business courses, any 399 (Readings and Research) course, or international business courses cross-listed with foreign language departments. In addition, students cannot take both breadth courses from the same department. Other courses that are 'core' or introductory courses in other business major areas (that are not part of the core requirement) may be taken to satisfy a business breadth course: ACCT I S 301, ACT SCI/MATH 303, INFO SYS/COMP SCI 371, INTL BUS 200, REAL EST/A A E/ECON/URB R PL 306, R M I 300

<sup>2</sup> Students with two majors in business or students with one major and a specialization in supply chain management need only one course (3 credits) outside their majors/supply chain management specialization to satisfy this requirement. Students with three or more majors (in the business school) or two majors and the supply chain specialization are not required to take additional breadth courses.

## CREDITS FOR BBA DEGREE

A minimum of 120 credits is required for the bachelor of business administration degree. Among these 120 credits:

- 52 credits (minimum) must be in business and economics courses
- 52 credits (minimum) must be in courses other than business and economics

## RESOURCES

### ACADEMIC ADVISING

As a student in the Wisconsin BBA Program, you will work directly with academic advisors who will help you plan your business education every step of the way. The advisors are here to help you explore your options, define your goals, and accomplish what you set out to achieve during your time as a Business Badger and beyond. Academic advisors also support students in making choices about course enrollment and understanding and interpreting degree requirements and policies.

Advisors in the Wisconsin BBA Program work in partnership with you. We give you the tools and support you need to make your own decisions about the course of your education. Your partnership with the advising team begins early in your academic career at the University of Wisconsin–Madison. When you enroll in the UW–Madison, one of your first steps will be to attend Student Orientation, Advising, and Registration (SOAR), where you will have your first meeting with an academic advisor.

Admitted students check in with both their academic advisor at least once a year. The BBA Advising Center also holds drop-in hours. Even UW–Madison students who are not yet enrolled in the Wisconsin BBA Program but who expect to apply through the pre-business admissions process (<https://wsb.wisc.edu/programs-degrees/undergraduate-bba/admissions/uw-madison-students>) receive their business advising at the School of Business.

In addition to providing advising, the Wisconsin BBA Advising Center serves as the academic dean's office: interpreting policy, administering academic processes, and performing graduation checks for graduating business students. For more information, visit the advising website (<http://bus.wisc.edu/bba/mybiz/advising>) or contact the Wisconsin BBA Advising Center in 3150 Grainger Hall; 608-262-0471; [wibbaadvising@bus.wisc.edu](mailto:wibbaadvising@bus.wisc.edu).

## CAREER SERVICES

The Wisconsin BBA Career Services team takes a relationship-based approach to working with students throughout the career development process and also consults with top employers to facilitate the recruitment, hiring and career readiness of our students. We offer a variety of services to undergraduate business, Certificate in Business, Capstone in Actuarial Science, and Master of Accountancy students including 1:1 advising, career and major exploration and planning, career workshops, mock interviews, career fairs, employer information sessions, on-campus interviewing, job shadow experiences and networking events. We will also coach you through the development of a professional resume, cover letter, networking and interviewing skills and job offer/negotiation skills. Through the exploration of your values, strengths and interests, we will help you create a career action plan early on in your collegiate experience so that you can participate in experiences both on and off campus to build your skills and readiness for the workplace or graduate study. Career planning is an ongoing process, and we are committed to helping you determine and achieve your immediate career goals and support you in developing the skills to manage a successful career throughout your lifetime.

For more information about BBA Career Services resources for students and faculty/staff, please see this page (<http://bus.wisc.edu/bba/mybiz/careers-internships>).

## BUSINESS LEARNING CENTER

The Business Learning Center (BLC) provides supplemental not-for-credit tutorials, drop-in office hours, and practice materials for select business-related courses. Materials are lecture-specific and tailored to the particular course instructor and textbook in use. BLC teaching assistants are all graduate students in either business or economics.

Drop-in office hours and practice materials are available to all students enrolled in BLC-supported courses. The tutorials are an additional service that requires registration—although BLC tutorials are open to all students, enrollment is limited and registration is required in order to attend. Courses supported through the BLC include mostly quantitative courses required for the BBA degree.

Students interested in the BLC may call 608-262-1186 for more information, or stop by the office, 2240 Grainger Hall. Please check the BLC website (<http://www.bus.wisc.edu/blc>) for additional information, including the online application.

## STUDENT LIFE

Wisconsin BBA student life coordinates leadership and involvement opportunities for students to enhance their personal and professional skills.

The Accenture Leadership Center (ALC) offers students unique, hands-on opportunities to develop leadership skills through workshops, guest speaker events, leadership case competitions, and other programs. The ALC also coordinates LeaderShape Institute, an intensive, six-day off-campus leadership training program where students learn to develop a vision and work with others to bring it to life. Students interested in documenting their leadership journey, making connections between their leadership experiences, and reflecting on their leadership development can pursue the ALC Leadership Certificate.

The Wisconsin BBA Program also has its own student government, BBA Gov, to unify and represent the student voice on issues of shared

governance within the school and to promote community within the BBA program. In addition, there are over 35 undergraduate business student organizations, offering plenty of opportunities for students to get involved and put their leadership and collaboration skills into practice. A business student organization fair is held at the start of each semester where potential new members can meet with representatives of organizations.

The student life team also oversees the Personal and Professional Foundations in Business course that all newly admitted BBA students take and coordinates the BBA program requirements to help students develop their professional skills outside the classroom.

For more information about Wisconsin BBA Student Life, see this page (<http://bus.wisc.edu/bba/mybiz/leadership-student-orgs>).

## BBA INTERNATIONAL PROGRAMS

A study abroad experience can complement and enhance every aspect of your business education. The Wisconsin BBA Program makes this opportunity possible by partnering with more than 35 of the top business schools and study abroad programs across the globe. Around 40% of each Wisconsin BBA graduating class studies abroad. These students regularly speak of their experience as professionally rewarding and personally transformative. A study abroad experience can be a great way to demonstrate enhanced autonomy, motivation, organization, worldview, and ability to take risks. You, too, can return from study abroad with a developed set of skills (that employers value!), a new sense of self, and a greater appreciation of cultural differences. Learn more about business study abroad opportunities here (<http://www.bus.wisc.edu/studyabroad>).

## ACCOUNTING AND INFORMATION SYSTEMS

The accounting major provides a student with the foundation to excel as a certified public accountant, internal auditor, financial manager, controller, and consultant. Tools and techniques of planning, control, and decision analysis (including computer applications) are developed in broad areas such as financial and managerial accounting, taxes, consulting, cost analysis, computer auditing, and accounting systems.

## DEGREES/MAJORS/CERTIFICATES

- Business: Accounting, BBA (p. 1181)

## BUSINESS: ACCOUNTING, BBA

The accounting major provides a student with the foundation to excel as a certified public accountant, internal auditor, financial manager, controller, and consultant. Tools and techniques of planning, control, and decision analysis (including computer applications) are developed in broad areas such as financial and managerial accounting, taxes, consulting, cost analysis, computer auditing, and accounting systems.

Every significant transaction in today's world requires assessing employment of money and materials. Accountants suggest the best way to manage resources or monitor and report on an organization's financial well being. Career possibilities include corporate accountant, auditor, controller, consultant, tax advisor or systems expert.

## OUR MISSION IS TO

- Serve our students, the accounting profession, academia, and other stakeholders through nationally recognized leadership in all aspects of scholarship, with an emphasis on discipline-based research.
- Provide meaningful learning experiences that engage the highest quality faculty and students who will be entering the accounting profession or the accounting academy and support the development of business professionals.
- Provide leadership and service to the academic community and policy-making bodies.

## RELATED STUDENT ORGANIZATIONS

Beta Alpha Psi (<https://win.wisc.edu/organization/BetaAlphaPsi>)

Institute of Management Accountants (<https://win.wisc.edu/organization/imauwmadison>)

National Association of Black Accountants (<https://win.wisc.edu/organization/naba>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

- |           |   |
|-----------|---|
| General   | • Breadth—Humanities/Literature/Arts: 6 credits   |
| Education | • Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits |
|           | • Breadth—Social Studies: 3 credits   |
|           | • Communication Part A & Part B *   |
|           | • Ethnic Studies *  |
|           | • Quantitative Reasoning Part A & Part B *  |

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

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
Pre-Business		
Liberal Studies		
Business Prep		
Business Core		
Business Breadth		

## ACCOUNTING MAJOR REQUIREMENTS

The accounting major is a total of 24 credits, distributed as follows:

Code	Title	Credits
GEN BUS 302	Business Organizations and Negotiable Instruments	3
ACCT I S 301	Financial Reporting I	3
ACCT I S 302	Financial Reporting II	3
ACCT I S 310	Cost Management Systems.	3
ACCT I S 340	Accounting Systems	3
ACCT I S 406	Advanced Financial Reporting <sup>1</sup>	3
ACCT I S 620	Fundamentals of Taxation	3
ACCT I S 630	Audit and Assurance Services	3
Accounting majors must maintain a minimum 2.5 GPA in business and econ courses every semester		
Accounting majors must take a minimum of 18 credits of ACCT I S courses at the 301 level or higher at UW-Madison		
Total Credits		24

<sup>1</sup> Students admitted to the Integrated Master's of Accountancy (IMAcc) Program (<https://bus.wisc.edu/degrees-programs/msmacc/imacc>) who complete a spring semester internship must complete ACCT I S 600 and ACCT I S 601 instead of ACCT I S 406. IMAcc students who complete a summer internship will still be responsible for completing ACCT I S 406 as part of the undergraduate degree requirements and will not enroll in ACCT I S 600 and ACCT I S 601.

## RECOMMENDED ELECTIVES <sup>1</sup>

Code	Title	Credits
ACCT I S 603	Financial Statement Analysis	3
ACCT I S 621	Corporate and Advanced Taxation	3
The following courses are recommended as program electives outside of accounting. The student is encouraged to elect as many as a program will permit.		
FINANCE/ECON 320	Investment Theory	3
FINANCE 325	Corporation Finance	3

INFO SYS/ COMP SCI 371	Technology of Computer-Based Business Systems	3
INFO SYS 424	Analysis and Design of Computer-Based Systems	3
OTM 654	Production Planning and Control	3
REAL EST/A A E/ ECON/URB R PL 306	The Real Estate Process	3
R M I 300	Principles of Risk Management	3

<sup>1</sup> Students who are interested in sitting for the CPA Exam may consider taking 1–2 extra accounting courses, as CPA requirements vary from state to state. Learn more (p. 1184) about the CPA.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will understand the conceptual and technical knowledge foundations of financial accounting, managerial accounting, taxation, business law, and auditing.
2. Students will apply Generally Accepted Accounting Principles (GAAP) (and relevant assumptions, principles, and constraints) to prepare financial statements.
3. Students will understand that management accounting and control systems, providing financial and non-financial performance information, are integral to the successful design and implementation of an organizational strategy.
4. Students will interpret and validate business events and transactions through the lens of business processes and systems.
5. Students will demonstrate technical competence in income taxation of individuals, partnerships, corporations, and international organizations.
6. Students will identify the legal implications of their choices and how the law impacts their interactions with others in a business setting.
7. Students will explain how to complete an audit from beginning to end, applying auditing standards, assessing risk, and gathering evidence.

8. Graduates will understand how earning trust and demonstrating integrity as successful accounting professionals impact business, contracts, and capital markets, as well as society at large.
9. Graduates will understand that leadership in the field of accounting is the consistent display and communication of respect, trust, expertise and adaptability within various business relationships and contexts.
10. Students will engage in effective written communication practices by crafting professional memos and reports that integrate research and analysis skills, technical information, and expert writing proficiency.
11. Students will understand how accounting is a global practice requiring knowledge of national and international standards, the examination of sociocultural impacts within business contexts, and the ability to leverage the advantages that diversity brings to an organization.

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## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR ACCOUNTING.

Ariel Sorenson  
Academic Advisor  
ariel.sorenson@wisc.edu

Please visit the advising ([https://bus.wisc.edu/bba/academics-and-programs/majors/~/link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&\\_z=z](https://bus.wisc.edu/bba/academics-and-programs/majors/~/link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&_z=z)) page for information on advising and appointments.

*Students may direct questions about the IMAcc program to Kristen Fuhremann (kristen.fuhremann@wisc.edu), the director of the program, or their academic or career advisor.*

### CAREERS

Accounting is the development and use of a system for recording and analyzing the financial transactions and financial status of an organization. Accountants are responsible for the record-keeping methods involved in making a financial record of business transactions and in the preparation of statements concerning the assets, liabilities, and operating results of a business.

Find out more about common industries for accounting and essential skills needed on the BBA Accounting website (<https://bus.wisc.edu/bba/academics-and-programs/majors/accounting>).

## PEOPLE

### ACCOUNTING FACULTY AND STAFF

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## CERTIFICATION/LICENSURE

### CERTIFIED PUBLIC ACCOUNTANT (CPA)

The state of Wisconsin and most other states have passed legislation mandating that candidates sitting for the CPA exam must have completed a 150-credit-hour program including at least the equivalent of an undergraduate major in accounting. Three advanced degree options for completing these requirements exist at the University of Wisconsin–Madison. They are:

1. The IMAcc (Integrated Master's of Accountancy) program leads to a BBA (Bachelor of Business Administration) with an accounting major and a Master of Accountancy degree. The BBA is 120 credits and the MAcc is 30 credits in this program. Students who are majoring in accounting apply for admission to this program during the spring semester of their junior year. Those who are admitted to the IMAcc program must complete a required internship during the spring semester of their senior year. Students are encouraged to take the GMAT exam during the first semester of their senior year.
2. The BBA degree with an accounting major and an MBA (Master of Business Administration) degree. The BBA degree is 120 credits and the MBA is a minimum of 36 credits resulting in a total of 156 credits. There is no accounting specialization track in the MBA, so graduate students must major in another area of business. Students can also satisfy the 150 credit hour requirement by completing the BBA degree with a major in accounting and 30 additional college credits in any area, including a second undergraduate major.
3. Any undergraduate degree with a MAcc degree. The graduate-only master's of accountancy degree program (GMAcc) does not require an undergraduate major in accounting or in business. There are 56 credits in this program, completed over two years. Students admitted to this program are required to complete an internship during the summer between the first and second years. The GMAT exam is required for admission.

Please consult the Department of Accounting and Information Systems for additional information.

## ACTUARIAL SCIENCE & RISK MANAGEMENT

Actuarial science deals with the application of mathematics, statistics, and the principles of finance to the construction and management of insurance and pension systems. The curriculum prepares students for careers with insurance companies, consulting firms, and governmental agencies. Courses offered cover the material of the associateship examinations of the Society of Actuaries and the Casualty Actuarial Society, although it is not expected that a student will complete these examinations in the course of the undergraduate program.

The major in risk management and insurance prepares students to identify, analyze, and manage risks that are inherent in the operation of profit and not-for-profit institutions. Besides professional careers in risk management, the major cultivates skills required for challenging opportunities in organizations that accept these risks—private and governmental insurers, as well as brokerage/agency and consulting organizations.

## DEGREES/MAJORS/CERTIFICATES

- Business: Actuarial Science, BBA (p. 1184)
- Business: Risk Management and Insurance, BBA (p. 1187)

## BUSINESS: ACTUARIAL SCIENCE, BBA

### OVERVIEW

Actuarial science deals with the application of mathematics, statistics, and the principles of finance to the construction and management of insurance and pension systems. The curriculum prepares students for careers with insurance companies, consulting firms, and governmental agencies. Courses offered cover the material of the associateship examinations of the Society of Actuaries and the Casualty Actuarial Society, although it is not expected that a student will complete these examinations in the course of the undergraduate program.

### MISSION

The actuarial science program distinguishes itself through leadership, innovation, community, connections, networks, and recognition.

### RELATED ORGANIZATIONS

Actuarial Club (<http://win.wisc.edu/organization/actclub>)  
Co-Curricular Learning Board (<http://bus.wisc.edu/knowledge-expertise/academic-departments/actuarial-science-risk-management-insurance/beyond-degrees/co-curricular-learning-board>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).



## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### ACTUARIAL SCIENCE MAJOR REQUIREMENTS

The following courses are required for actuarial science majors. The Risk and Insurance Department also has course sequence information. Please be aware of stated prerequisites for major courses (including business core courses) that need to be completed before taking the

course. Specific prerequisites can be found by clicking on the course number below.

Code	Title	Credits
MATH/STAT 431	Introduction to the Theory of Probability <sup>1</sup>	3
or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I	
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II <sup>1</sup>	3
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	
ACT SCI 300	Actuarial Science Methods I	1
ACT SCI 301	Actuarial Science Methods II	1
ACT SCI/MATH 303	Theory of Interest and Life Insurance	3
ACT SCI 650	Actuarial Mathematics I	3
ACT SCI 652	Loss Models I	3
ACT SCI 651	Actuarial Mathematics II	3
or ACT SCI 653	Loss Models II	
ACT SCI 654	Regression and Time Series for Actuaries	3
or ACT SCI 655	Health Analytics	
Total Credits		23

<sup>1</sup> The two statistics courses and the last ACT SCI 654 or ACT SCI 655 (as a group of 3 courses) also fulfill the business analytics requirement found in the BBA Business Prep Requirements.

### RECOMMENDED ELECTIVES

Code	Title	Credits
MATH 234	Calculus—Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3

Students are encouraged to take MATH 234 Calculus—Functions of Several Variables before taking probability (MATH/STAT 431 Introduction to the Theory of Probability, STAT/MATH 309 Introduction to Probability and Mathematical Statistics I, or STAT 311 Introduction to Theory and Methods of Mathematical Statistics I), courses in risk management and insurance; finance; and computer science.

### UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will recognize and explain the concept of risk, and apply the knowledge to the development of insurance products that are used to manage risk for the consumer as well as the risk of those products on the insurance organization.
2. Graduates will describe the actuarial profession, including the major professional organizations, the professional obligations of being an actuary, and the requirements to obtain and maintain a professional actuarial designation.
3. Graduates will demonstrate skills in critical thinking, quantitative analysis, and communication, as well as to develop an appreciation for actuarial theory, research, and the link to practical application.
4. Graduates will demonstrate the soft skills of being a professional.
5. Graduates will communicate their experiences and inspire others across the WSOB learning community.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR ACTUARIAL SCIENCE

Tara Milliken  
Career Advisor  
tara.milliken@wisc.edu

Maggie Nowicki  
Academic Advisor  
maggie.nowicki@wisc.edu

Please visit the advising page (<http://www.bus.wisc.edu/bba/mybiz/advising>) for information on advising and appointments.

Contact [wibbaadvising@bus.wisc.edu](mailto:wibbaadvising@bus.wisc.edu) for questions regarding academic advising.

The Actuarial Club offers advising nights every fall semester to help students plan their course sequencing and professional exams. Additionally, students should use the following documents (<https://bus.wisc.edu/bba/academics-and-programs/majors/4E50E872FC40499482A19F390734D05B.ashx>) to help them prepare their course and exam schedule.

## CAREERS

Actuaries are problem solvers with expertise in understanding and managing financial risk. They use historical information and models to help predict the future. Actuaries may specialize in life and health (risk of illness, disability or death), pensions (develop and analyze retirement programs) or property and casualty (personal property risks and risks associated with businesses).

Find out more about common industries and essential skills needed to be an actuary on the BBA Actuarial Science website (<https://bus.wisc.edu/bba/academics-and-programs/majors/actuarial-science>).

## PEOPLE

### FACULTY AND STAFF IN RISK AND INSURANCE

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Assistant Professor  
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## CERTIFICATION/LICENSURE

### ACTUARIAL CREDENTIALS

There are several exams and credentials from the Casualty Actuarial Society (<http://www.casact.org>) and the Society of Actuaries (<https://www.soa.org>) that we prepare students to obtain during their undergraduate career. Students are encouraged to pass at least 2 actuarial exams before graduation in order to obtain an internship and/or job.

## RESOURCES AND SCHOLARSHIPS

### ACTUARIAL SCIENCE HIGH SCHOOL SCHOLARSHIP

If you are good at math and are interested in pursuing a career as an actuary, apply for our High School Actuarial Scholarship. The first place award of \$2,000 per year for four years will be given to a high school senior on the basis of mathematical aptitude and expressed interest in an actuarial career. The deadline for application is **March 1, 2017**. You can download the scholarship application here (<http://bus.wisc.edu/~media/bus/knowledge-expertise/academic-departments/asrmi/hs-outreach/hs-application-2017.pdf?la=en>).

## BUSINESS: RISK MANAGEMENT AND INSURANCE, BBA

### OVERVIEW

The major in risk management and insurance prepares students to identify, analyze, and manage risks that are inherent in the operation of profit and not-for-profit institutions. Besides professional careers in risk management, the major cultivates skills required for challenging opportunities in organizations that accept these risks—private and governmental insurers, as well as brokerage/agency and consulting organizations.

The program of study may be structured to aid students seeking professional designations of Chartered Property and Casualty Underwriter (CPCU) and Associate in Risk Management (ARM).

### RECOGNITION

Our risk management and insurance program is ranked 4th in the U.S. by *U.S. News & World Report* 2016.

### RELATED ORGANIZATIONS

Risk Management and Insurance Society (<https://win.wisc.edu/organization/rmis>)

Co-Curricular Learning Board (<http://bus.wisc.edu/knowledge-expertise/academic-departments/actuarial-science-risk-management-insurance/beyond-degrees/co-curricular-learning-board>)

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

### REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

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

**SCHOOL OF BUSINESS REQUIREMENTS**

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

**RISK MANAGEMENT & INSURANCE (RMI) MAJOR REQUIREMENTS**

The risk management and insurance major consists of 12 required credits. RMI 300 should be completed prior to any other RMI coursework, as it is a prerequisite for all other courses.

Code	Title	Credits
RMI 300	Principles of Risk Management	3
<i>Complete 3 of the following courses OR 2 from below and 1 from electives</i>		9
RMI 640	Management of Insurance Enterprise	
RMI 645	Commercial Insurance	
RMI 655	Risk Financing Techniques	
RMI 660	Risk Analytics and Behavioral Science	
<b>Electives</b> <sup>1</sup>		
RMI 620	Employee Benefits Management	
RMI 650	Sustainability, Environmental and Social Risk Management	
FINANCE 325	Corporation Finance	
FINANCE 330	Derivative Securities	

ACT SCI 650	Actuarial Mathematics I	
ACT SCI 652	Loss Models I	
ACT SCI 654	Regression and Time Series for Actuaries	
ACT SCI 655	Health Analytics	
Total Credits		12

<sup>1</sup> None of the elective courses listed may be used to satisfy the business breadth requirement.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Graduates integrate a holistic risk management process (framework) across all dimensions of an organization, implementing risk management decisions that add value.
2. Graduates use appropriate statistical techniques and data analysis to support risk management decisions.
3. Graduates apply fundamental insurance principles that support economic development through insurance markets.
4. Graduates identify decision-making challenges, and implement strategies to address those challenges, in environments involving risk and uncertainty.
5. Graduates demonstrate strong critical thinking skills as observed through their ability to debate various positions, ask skeptical questions, and probe underlying assumptions.
6. Graduates demonstrate leadership qualities in moving the profession forward.

**ADVISING AND CAREERS****ADVISING****MEET THE ACADEMIC AND CAREER ADVISORS FOR RMI.**

Tara Milliken  
Career Advisor

tara.milliken@wisc.edu

Maggie Nowicki  
Academic Advisor  
maggie.nowicki@wisc.edu

Please visit the advising page ([http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/~link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&z=z](http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/~link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&z=z)) for information on advising and appointments. Contact [wibbaadvising@bus.wisc.edu](mailto:wibbaadvising@bus.wisc.edu) for questions regarding academic advising.

## CAREERS

Risk professionals identify, develop, and analyze solutions to manage risk (financial, credit, operational, etc.) at both the organizational and consumer level. Effective risk management encompasses all divisions of an organization, allowing the organization to grow safely and to be more resilient. Insurance is a key solution for managing risk and is deployed by risk professionals working as brokers, underwriters, claims adjusters, product developers, and a host of other potential insurance careers.

To learn more about careers in risk management and insurance, please visit the BBA RMI website (<http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/risk-management-insurance>).

## PEOPLE

### FACULTY AND STAFF IN RISK AND INSURANCE

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## BUSINESS - SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Business, Certificate (p. 1190)
- Business: International Business, BBA (p. 1192)
- Health Care Management, Specialization (p. 1191)
- Supply Chain Management, Specialization (p. 1202)

## PEOPLE

For a full list of School of Business faculty and staff, visit the school's directory (<http://bus.wisc.edu/about-us/admin/faculty-staff-search>).

## BUSINESS, CERTIFICATE

The Certificate in Business (CIB) program provides non-business students the opportunity to earn a concentration in a clearly defined academic program in business. The coursework allows students to develop a foundational understanding of business and apply this to their specific field, such as international studies or engineering. In addition to careers related to their own fields, students who earn the certificate have also found job opportunities in management, marketing, and other business fields in the past.

## HOW TO GET IN

The certificate in business is for **non-business students only**. An application is required to be accepted into the CIB Program. Not all students are admitted, so it is important to make your application as strong as possible. There are no specific courses that must be taken before applying. If a student chooses to take CIB courses before being admitted, the courses will fulfill requirements after admission.

## ELIGIBILITY

To be eligible to apply, students must meet the following requirements:

- 54 degree credits completed at time of application (junior standing)
- 12 GPA credits (transfer students must complete a minimum of 12 credits at UW–Madison)
- 2.75 minimum cumulative GPA (This GPA does not guarantee admission to the CIB)
- Grades and GPAs from transfer coursework do not count toward CIB admission
- Currently enrolled UW–Madison student
- Undergraduate, degree-seeking student (non-business)

## APPLICATION

The application (<https://apps.wsb.wisc.edu/undergrad/certificate/application/closed.aspx>) is available the first Friday of each semester and due the fourth Friday of the semester. Students must complete the application in one sitting.

**The certificate in business application requires an essay on behalf of the applicant.**

Admission decisions are based primarily on cumulative UW–Madison GPA and fit for the program as evidenced through the applicant's essay. All admission decisions are final and there is no appeal process for denied students.

Admitted students will be charged a \$150 tuition differential until degree completion/graduation. The tuition differential provides CIB students access to all School of Business resources, including career and academic advisors within the BBA Program.

## REQUIREMENTS

The CIB program consists of six courses (four core courses and two additional breadth courses), for a total of 18 credits. Students are also responsible for any pre-requisite courses needed for core or breadth courses. Click here for pre-requisite information for core courses.

Students must take at least 12 of the 18 required credits in residence at UW–Madison. Study abroad courses taken through a UW–Madison sponsored program will count toward the 12 credits in residence.

**Students must earn a grade of "C" or better in all required courses for the CIB.**

## REQUIRED COURSES

Code	Title	Credits
ACCT I S 300	Accounting Principles <sup>1</sup>	3
or ACCT I S 100	Introductory Financial Accounting	
FINANCE/ECON 300	Introduction to Finance <sup>2</sup>	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
Breadth Course <sup>2</sup>		3
Breadth Course <sup>2</sup>		3
Total Credits		18

<sup>1</sup> CIB students are strongly encouraged to take ACCT I S 300, unless ACCT I S 100 is required by their major. Please note, however, that ACCT I S 100 is a requirement for many other upper-level accounting and finance courses. Students planning to take additional accounting or finance courses, should consult with the CIB advisor.

<sup>2</sup> Please make sure to consult with the CIB advisor to find out if previous coursework may count toward the econ and statistics pre-requisites.

### <sup>2</sup> BREADTH REQUIREMENT INFORMATION:

- Breadth courses must be at least 3 credits
- Breadth courses must be School of Business courses (or courses cross-listed with School of Business). Breadth courses may be from the same department as the core courses
- Breadth courses must be from *two different School of Business departments* (or cross-listed with two different School of Business departments)
- Courses taken at another institution must be directly equivalent to a UW–Madison business course and title (i.e., not elective credit)

## EXCLUSIONS

The following courses **may not be used** to satisfy the CIB Breadth Courses requirement:

Code	Title	Credits
GEN BUS 300	Professional Communication	3
GEN BUS 306	Business Analytics I	3
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3

GEN BUS 365	Contemporary Topics	3
ACCT I S 211	Introductory Managerial Accounting	3
Any business course numbered 399		
Any business course cross-listed with a foreign language		

health care in an integrated business framework both in and out of the classroom from our faculty and applied learning program.

## HOW TO GET IN

**Note:** Admission is suspended for this specialization effective spring 2018.

The healthcare specialization is only for students in the School of Business.

All undergraduate students in the School of Business are eligible to pursue this specialization. Students simply need to declare this specialization using this form ([https://co1.qualtrics.com/jfe/form/SV\\_8JkBSs6YnaKxb7f?\\_ga=1.181132327.1053526238.1463515009](https://co1.qualtrics.com/jfe/form/SV_8JkBSs6YnaKxb7f?_ga=1.181132327.1053526238.1463515009)).

Contact your academic or career advisor for questions about pursuing the health care management specialization. Contact the program coordinator, Mark Covaleski ([mcovaleski@bus.wisc.edu](mailto:mcovaleski@bus.wisc.edu)), with questions about the specialization, including course options.

## REQUIREMENTS

The healthcare management specialization requires you to take 3 courses from the below approved course list. If you find another course not on this list that you believe may fit, contact Professor Covaleski ([mcovaleski@bus.wisc.edu](mailto:mcovaleski@bus.wisc.edu)) about possible additional courses that may be relevant.

Code	Title	Credits
<b>Select three of the following:</b>		
CSCS 460	Leadership and Management of Nonprofit Organizations	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
GEN&WS 102	Gender, Women, and Society in Global Perspective	3
GEN&WS 103	Women and Their Bodies in Health and Disease	3
MED HIST/ HIST SCI 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	3
MED HIST/ HIST SCI 218	History of Twentieth Century American Medicine	3
MED HIST/HIST SCI/ HISTORY 504	Society and Health Care in American History	3
MED HIST/ PHILOS 505	Justice and Health Care	3
MED HIST/HIST SCI/ HISTORY 507	Health, Disease and Healing I	3-4
MED HIST/HIST SCI/ HISTORY 508	Health, Disease and Healing II	3-4
MED HIST/ HIST SCI 509	The Development of Public Health in America	3
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/GEN&WS/ HIST SCI 531	Women and Health in American History	3

## ADVISING AND CAREERS

### ADVISING

Katie Denzin ([katie.denzin@wisc.edu](mailto:katie.denzin@wisc.edu)) is the assigned academic advisor for the certificate in business. Students may set up an appointment with any BBA career advisor through BuckyNet.

### CAREERS

Certificate students are qualified for many entry-level business positions. While the career opportunities available to CIB are vast, common business careers CIB students pursue following graduation include:

- Advertising
- Business analyst—information systems
- Business development
- Commercial and retail banking
- Consulting
- Event management
- Human resources
- Investment management
- Management
- Project lead/manager—information systems
- Retail (stores and corporate)
- Underwriting/claims adjusting

Other CIB students choose to pursue careers in education, engineering, the nonprofit sector or the healthcare industry, to name a few. Some CIB students attend graduate school following graduation in programs including law school, public policy, medical school, engineering, social work, and more.

## HEALTH CARE MANAGEMENT, SPECIALIZATION

**Note:** Admission is suspended for this specialization effective spring 2018.

The health care system is undergoing rapid change. Increasing emphasis on managed care; a growing concern for cost effectiveness; governmental priorities; and increasing concern for the elderly, mentally ill, and developmentally disabled all point to the greater need for individuals with skills in the business-management area, both to serve established needs and as a part of the reorganization of many health care delivery systems. This specialization will permit the student to explore the nature of the health care system.

A specialization in health care management is available to all undergraduate students enrolled in the School of Business. Students can add this specialization to their current business major. To complete the health care management specialization, students take the traditional business courses as well as three electives. Students learn to think about

MED HIST/HIST SCI/ POP HLTH 553	International Health and Global Society	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
I SY E/MED PHYS 559	Patient Safety and Error Reduction in Healthcare	2
NURSING/S&A PHM/ SOC WORK/ THER SCI 105	Health Care Systems: Interdisciplinary Approach	2
OTM 451	Service Operations Management	3
POLI SCI 100	Freshman Topics Seminar (Health Policy and Politics ONLY)	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
POP HLTH 664	Prevention of Overweight and Obesity	2
REAL EST 365	Contemporary Topics (Commercial Healthcare ONLY)	3
SOC 170	Population Problems	3-4
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

## PEOPLE

### FACULTY AND STAFF IN HEALTHCARE MANAGEMENT

Mark Covaleski (<https://bus.wisc.edu/faculty/Mark-Covaleski>), BS, MBA, Ph.D.

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## BUSINESS: INTERNATIONAL BUSINESS, BBA

The international business major is designed to provide students with the sound understanding of international business principles and the languages and cultures of other regions that are essential for success in today's global economy.

Students who major in international business must declare another major in business, as functional business skills such as accounting, marketing and finance are important for initial career placement and emphasized

more in the early stages of business careers. International skills are generally utilized after mastering functional skills.

Students must choose a region of emphasis and select language and area studies courses accordingly. Currently, regional tracks are established for Asia, Europe, and Latin America. Studying abroad through the School of Business International Programs for one fall or spring semester in the selected region is required for the major.

### RELATED STUDENT ORGANIZATIONS

AIIESEC  
International Business Student Association  
International Finance Club

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General Education	Requirements
General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

#### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies



Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

Students who major in international business must declare another major in business, as functional business skills such as accounting, marketing and finance are important for initial career placement and emphasized more in the early stages of business careers. International skills are generally utilized after mastering functional skills.

Students must choose a region of emphasis and select language and area studies courses accordingly. Currently, regional tracks are established for Asia, Europe, and Latin America. Studying abroad through the School of Business International Programs for one fall or spring semester in the selected region is required for the major. A student must complete a minimum of 43 credits, distributed as follows:

Code	Title	Credits
<b>International Business Coursework: 12 credits (min. 6 credits from International Business Department)</b>		
INTL BUS 200	International Business	
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	
INTL BUS 365	Contemporary Topics	
INTL BUS/ M H R 403	Global Issues in Management	
INTL BUS/ MARKETNG 420	Global Marketing Strategy	
INTL BUS/ REAL EST 430	International Real Estate	
INTL BUS/ FINANCE 445	Multinational Business Finance	
INTL BUS/A A E/ ECON 462	Latin American Economic Development	
A A E/ INTL ST 373	Globalization, Poverty and Development	
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	
ECON 309	Study Abroad in Intermediate Economics	
ECON 409	Study Abroad in Advanced Economics	
ECON 364 or ECON 464	Survey of International Economics	
ECON 467	International Trade and Finance	
	International Industrial Organizations	

ECON/A A E 473	Economic Growth and Development in Southeast Asia	
ECON/A A E 474	Economic Problems of Developing Areas	
<b>Foreign Language Taught in the Region: 22 credits</b>		22
Select a maximum of 2 languages <sup>1</sup>		
<b>Area Studies: 9 credits</b>		9
Select 9 credits of approved coursework for the specified region (found below)		
<b>Semester Abroad</b>		
Complete a semester abroad on a School of Business–sponsored program in the region <sup>2</sup>		
Total Credits		43

<sup>1</sup> Retroactive credits apply. Students are strongly encouraged to take language courses beyond the minimum requirement in order to maintain proficiency, particularly if planning to take study abroad courses in the language.

Approved languages include:

**Asia:** Chinese, Hindi, Hmong, Indonesian, Japanese, Korean, Pali, Filipino, Sanskrit, Telugu, Thai, Tibetan, Turkish, Urdu, Uzbek, Vietnamese

**Europe:** Czech, Danish, Dutch, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Russian, Serbo-Croatian, Spanish, Swedish, Turkish

**Latin America:** Spanish, Portuguese

<sup>2</sup> Students are strongly encouraged to take courses abroad in the local language. See School of Business International Programs (<http://bus.wisc.edu/bba/study-abroad>) for study abroad options.

## AREA STUDIES APPROVED COURSEWORK

### ASIA

Code	Title	Credits
<b>ANTHROPOLOGY</b>		
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
ANTHRO 358	Anthropology of China	3
ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	1-6
ANTHRO/LCA 462	Anthropology of South Asia	3
<b>EAST ASIAN AREA STUDIES</b>		
E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies	1-3
E A STDS 301	Social Studies Topics in East Asian Studies	1-3
E A STDS/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4

### EAST ASIAN LANGUAGES & CULTURE

E ASIAN/LCA/ RELIG ST 235	Genres of Asian Religious Writing	3	FOLKLORE/ DS 655 655	Comparative World Dress	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	<b>GEOGRAPHY</b>		
E ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3	GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
E ASIAN/KINES 277	Kendo: Integration of Martial Arts and Liberal Arts	2	GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
E ASIAN/ E A STDS 300	Humanities Topics in East Asian Studies	1-3	GEOG 358	Human Geography of Southeast Asia	3
E ASIAN/ RELIG ST 350	Introduction to Taoism	3-4	GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
E ASIAN 356	Chinese Painting	3-4	<b>HISTORY</b>		
E ASIAN 358	Language in Japanese Society	3	HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	3	HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
E ASIAN/ RELIG ST 363	Introduction to Confucianism	3	HISTORY 108	Introduction to East Asian History - Korea	3-4
E ASIAN 371	Topics in Chinese Literature	2-3	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
E ASIAN 376	Manga.	3	HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
E ASIAN 378	Anime	3	HISTORY 139	The Middle East in the 20th Century	3-4
E ASIAN 379	Business Chinese	3	HISTORY 142	History of South Asia to the Present	3-4
E ASIAN 433	Topics in East Asian Visual Cultures	3	HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
E ASIAN/LCA/ RELIG ST 466	Buddhist Thought	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
E ASIAN 520	Popular Culture and Film in Twentieth-Century China	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
E ASIAN 631	History of the Chinese Language	3	HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
E ASIAN 632	History of the Chinese Language	3	HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
E ASIAN 651	History of Chinese Literature	3	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
E ASIAN 652	History of Chinese Literature	3	HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
E ASIAN 661	History of Chinese Thought, Part 1	3	HISTORY 319	The Vietnam Wars	3-4
E ASIAN 662	History of Chinese Thought, Part 2	3	HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
E ASIAN 671	Literary Studies in Chinese Drama	3	HISTORY 335	Korean History, 1945 to present	3-4
E ASIAN 672	Literary Studies in Chinese Fiction	3	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
<b>FOLKLORE</b>			HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3			
FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2			
FOLKLORE/LCA 374	Indian Folklore	3			
FOLKLORE/ MUSIC 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3			
FOLKLORE/DANCE/ THEATRE 421	Javanese Performance Repertory	2			
FOLKLORE/ GEN&WS 467	Women and Politics in Popular Culture and Folklore	3			
FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature	3			

HISTORY 357	The Second World War	3-4	LCA 361	Survey of Indonesian Cultures	3
HISTORY/ E A STDS 363	China and World War II in Asia	3-4	LCA/RELIG ST 367	Jainism: Religion of Non-Violence	3
HISTORY/ RELIG ST 379	Islam in Iran	3	LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4	LCA 373	Urdu Prose Fiction in India and Pakistan	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4	LCA/FOLKLORE 374	Indian Folklore	3
HISTORY/LCA 450	Making of Modern South Asia	3-4	LCA/ART HIST 379	Cities of Asia	3
HISTORY/ E A STDS 454	Samurai: History and Image	3-4	LCA 401	Modern Indonesian Literature	3
HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4	LCA/RELIG ST 402	Thought of Gandhi	3
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4	LCA 403	Southeast Asian Literature	3
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4	LCA 404	Southeast Asian Literature	3
HISTORY 463	Topics in South Asian History	3	LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4	LCA/ART HIST 428	Visual Cultures of South Asia	3
<b>INTEGRATED LIBERAL STUDIES</b>			LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
ILS 209	Introduction to Global Cultures	3	LCA 441	Language and Society in Southeast Asia	3
<b>INTERNATIONAL STUDIES</b>			LCA/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
INTL ST 101	Introduction to International Studies	3-4	LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
<b>LANGUAGES AND CULTURES OF ASIA</b>			LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA 100	Introduction to Cultures of Asia	3	LCA/ANTHRO 462	Anthropology of South Asia	3
LCA 101	Introduction to Literatures of Asia	3	LCA/E ASIAN/ RELIG ST 466	Buddhist Thought	3
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4	LCA/GEN&WS/ HISTORY 472	Women in Turkish Society	3
LCA/RELIG ST 206	Introduction to the Qur'an	4	LCA 579	Fiction and Ethnography in Turkey	3
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	LCA/RELIG ST/ SOC 614	Social Structures of Muslim Societies	3
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4	LCA/RELIG ST 624	Meditation in Indian Buddhism and Hinduism	3
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3	LCA/RELIG ST 626	Gods and Goddesses of South Asia	3
LCA 266	Introduction to the Middle East	3	LCA/LEGAL ST/ RELIG ST 628	Hindu Law	3
LCA/RELIG ST 274	Religion in South Asia	3	LCA/RELIG ST/ SOC 634	Social Structure of India	3
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3	LCA/POLI SCI 663	South Asia and the Global System: Economy, Security & Culture	3-4
LCA 300	Topics in Languages and Cultures of Asia	3	<b>LITERATURE IN TRANSLATION</b>		
LCA/E ASIAN/ HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4	LITTRANS 211	Modern Indian Literatures in Translation	3
LCA 311	Modern Indian Literatures	3	LITTRANS 214	Literatures of Central Asia in Translation	3
LCA 314	Literatures of Central Asia	3	LITTRANS 231	Manga	3
LCA/POLI SCI 326	Politics of South Asia	3-4	LITTRANS 232	Anime	3
LCA/LITTRANS/ THEATRE 348	In Translation: Modern Indian Theatre	3	LITTRANS 261	Survey of Chinese Literature in Translation	3
LCA/RELIG ST 355	Hinduism	4	LITTRANS 262	Survey of Chinese Literature in Translation	3
LCA/RELIG ST 357	Literatures of Muslim Societies	3	LITTRANS 263	Survey of Japanese Literature in Translation	3
			LITTRANS 264	Survey of Japanese Literature in Translation	3

LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3
LITTRANS 301	Modern Indonesian Literature in Translation	3
LITTRANS 303	Southeast Asian Literature in Translation	3
LITTRANS 304	Southeast Asian Literature in Translation	3
LITTRANS/LCA/ THEATRE 348	In Translation: Modern Indian Theatre	3
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 372	Classical Japanese Prose in Translation	3
LITTRANS 373	Topics in Japanese Literature	3
LITTRANS 374	Topics in Korean Literature	3
<b>POLITICAL SCIENCE</b>		
POLI SCI 120	Politics Around the World	4
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4
POLI SCI/E A STDS/ HISTORY 255	Introduction to East Asian Civilizations	3-4
POLI SCI 313	Bargaining in the Global Economy	3-4
POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 324	Political Power in Contemporary China	3-4
POLI SCI/LCA 326	Politics of South Asia	3-4
POLI SCI 333	International Politics of the Middle East	3-4
POLI SCI 346	China in World Politics	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4
POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 640	Politics of Japan	3-4
POLI SCI/LCA 663	South Asia and the Global System: Economy, Security & Culture	3-4
POLI SCI/ JEWISH 665	Israeli Politics and Society	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

**SOCIOLOGY**

SOC/GEOG/ HISTORY/LCA/ POLI SCI 252	The Civilizations of India-Modern Period	4
SOC 497	Study Abroad in Sociology	1-6
SOC/LCA/ RELIG ST 634	Social Structure of India	3

**EUROPE**

Code	Title	Credits
<b>ANTHROPOLOGY</b>		
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 309	Prehistoric Europe	3
ANTHRO 369	Peoples and Cultures of Central and Eastern Europe	3-4
ANTHRO/JEWISH/ RELIG ST 372	Jews of Central and Eastern Europe	3-4
ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	1-6

**FOLKLORE**

FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4
FOLKLORE/ LITTRANS/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/ MUSIC 404	Music of S.E. Asia: Tradition, Innovation, Politics, and Religion	3
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE/ MEDIEVAL/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	3
FOLKLORE/ GEN&WS 467	Women and Politics in Popular Culture and Folklore	3
FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature	3
FOLKLORE 517	The Irish Tradition	3
FOLKLORE 518	The Scottish Tradition	3
FOLKLORE/ DS 655 655	Comparative World Dress	3

**FRENCH**

FRENCH 211	French Interdisciplinary Studies	3	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
FRENCH 240	Immigration and Expression	3	HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	HISTORY 115	Medieval Europe 410-1500	4
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	HISTORY 119	The Making of Modern Europe 1500-1815	4
FRENCH/ INTL BUS 315	Advanced Interdisciplinary Studies in Professional Communication	3	HISTORY 120	Europe and the Modern World 1815 to the Present	4
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization	3	HISTORY 123	English History: England to 1688	3-4
FRENCH 348	Modernity Studies	3	HISTORY 124	British History: 1688 to the Present	4
FRENCH 449	Francophone Modernity Studies	3	HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3	HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
FRENCH 465	French/Francophone Film	3	HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
FRENCH/CLASSICS/ HISTORY/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3	HISTORY 223	Explorations in European History (H)	3-4
FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies	3	HISTORY 224	Explorations in European History (S)	3
<b>GEOGRAPHY</b>			HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY 271	History Study Abroad: European History	1-4
GEOG 349	Europe	3	HISTORY 303	A History of Greek Civilization	3-4
GEOG 353	Russia and the NIS-Topical Analysis	3	HISTORY 307	A History of Rome	3-4
GEOG/URB R PL 506	Historical Geography of European Urbanization	3	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
<b>GERMAN</b>			HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4
GERMAN 245	Topics in Dutch Life and Culture	3	HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
GERMAN/ JEWISH 267	Yiddish Song and the Jewish Experience	3-4	HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
GERMAN/JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	3	HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
GERMAN 272	Nazi Culture	3	HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	3	HISTORY 320	Early Modern France, 1500-1715	3-4
GERMAN 278	Topics in German Culture	3	HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
GERMAN 351	Introduction to German Linguistics	3-4	HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3
GERMAN 372	Topics in German Culture	3-4	HISTORY/ ENVIR ST 328	Environmental History of Europe	3
GERMAN 410	Kultur 1648-1918	3-4	HISTORY 333	The Renaissance	3-4
GERMAN 411	Kultur des 20. Jahrhunderts	3-4	HISTORY/ RELIG ST 334	The Reformation	3-4
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3			
GERMAN 560	Topics in German Studies	3			
GERMAN/ MEDIEVAL 611	Survey of German Literature to 1700	3			
GERMAN 612	German Literary Movements Since 1750	3			
<b>HISTORY</b>					

HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4	HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
HISTORY 351	Seventeenth-Century Europe	3-4	HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
HISTORY 352	Eighteenth Century Europe	3-4	HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY 357	The Second World War	3-4	HISTORY/HIST SCI/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3
HISTORY 358	French Revolution and Napoleon	3-4	HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
HISTORY 359	History of Europe Since 1945	3-4	<b>INTEGRATED LIBERAL STUDIES</b>		
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	ILS 209	Introduction to Global Cultures	3
HISTORY 367	Society and Ideas in Shakespeare's England	3-4	<b>INTERNATIONAL STUDIES</b>		
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4	INTL ST 101	Introduction to International Studies	3-4
HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4	<b>ITALIAN</b>		
HISTORY 410	History of Germany, 1871 to the Present	3-4	ITALIAN 230	Modern Italian Culture	3
HISTORY 417	History of Russia	3-4	ITALIAN/ CLASSICS 350	Rome: The Changing Shape of the Eternal City	3-4
HISTORY 418	History of Russia	3-4	ITALIAN/ COM ARTS 460	Italian Film	3
HISTORY 419	History of Soviet Russia	3-4	<b>LITERATURE IN TRANSLATION</b>		
HISTORY 420	Russian Social and Intellectual History	3-4	LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	3
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4	LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3
HISTORY 425	History of Poland and the Baltic Area	3-4	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4
HISTORY 467	Economic and Social History of Europe 1500-1750	3-4	LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	3
HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4	LITTRANS 209	Masterpieces of French Literature and Culture	3
HISTORY 474	European Social History, 1830-1914	3-4	LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
HISTORY 475	European Social History, 1914-Present	3-4	LITTRANS 220	Chekhov in Translation	3-4
HISTORY/ LEGAL ST 502	Law and Colonialism	3	LITTRANS 221	Gogol in Translation	3-4
HISTORY 503	Irish and Scottish Migrations	3	LITTRANS 222	Dostoevsky in Translation	3-4
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4	LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4	LITTRANS 224	Tolstoy in Translation	3-4
HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
HISTORY 514	European Cultural History Since 1870	3-4	LITTRANS 229	Representation of the Jew in Eastern European Cultures	3
HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3			

LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	3-4	LITTRANS 337	In Translation: 19th Century Scandinavian Fiction	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	LITTRANS 338	In Translation: Knut Hamsun and the 20th Century Norwegian Novel	3-4
LITTRANS/ MEDIEVAL 235	The World of Sagas	3	LITTRANS 339	In Translation: Kierkegaard and Scandinavian Literature	3-4
LITTRANS 240	Soviet Literature in Translation	3-4	LITTRANS/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4
LITTRANS 241	Literatures and Cultures of Eastern Europe	3	LITTRANS 343	In Translation: The Woman in Scandinavian Literature	3-4
LITTRANS 247	Topics in Slavic Literatures in Translation	3	LITTRANS/ FOLKLORE/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4
LITTRANS/ MEDIEVAL/ RELIG ST 253	Literature in Translation: Dante's Divine Comedy	3	LITTRANS/ FOLKLORE/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3	LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
LITTRANS 255	Literature in Translation: Boccaccio's Decameron-The Human Comedy	3	LITTRANS/ THEATRE 349	In Translation: Modern Scandinavian Drama	4
LITTRANS 256	Lit in Translation: Images of the Individual in the Italian Renaissance	3	LITTRANS 350	Scandinavian Decadence in its European Context	3-4
LITTRANS 260	Italy and the Invention of America: from Columbus to World War II	3	LITTRANS 360	French and Italian Renaissance Literature Online	3-4
LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century	3	LITTRANS 410	In Translation: Special Topics in Italian Literature	3
LITTRANS/GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	3	LITTRANS 454	History of Serbian and Croatian Literature	3
LITTRANS/ GEN&WS 270	German Women Writers in Translation	3	LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	3-4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	<b>POLITICAL SCIENCE</b>		
LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4	POLI SCI 120	Politics Around the World	4
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3	POLI SCI 140	Introduction to International Relations	3-4
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation)	3	POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
LITTRANS/ JEWISH 318	Modern Jewish Literature	3-4	POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
LITTRANS/L I S 319	Scandinavian Children's Literature	3-4	POLI SCI 265	Development of Ancient and Medieval Western Political Thought	3-4
LITTRANS 324	Topics in Scandinavian Literature	3-4	POLI SCI 266	The Development of Modern Western Political Thought	3-4
LITTRANS 326	Topics in Dutch Literature in Translation	3	POLI SCI 313	Bargaining in the Global Economy	3-4
LITTRANS 329	The Vampire in Literature and Film	3	POLI SCI 334	Russian Politics	3-4
LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2	POLI SCI 340	The European Union: Politics and Political Economy	3-4
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4	POLI SCI 348	Analysis of International Relations	3-4
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4	POLI SCI 351	Politics of the World Economy	3-4
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	3-4	POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4

POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4	SCAND ST 436	Topics in Scandinavian Literature	3-4
POLI SCI 438	Comparative Political Culture	3-4	SCAND ST 437	Modern Scandinavian Drama	4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
POLI SCI 561	Radical Political Theory	3-4	SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4	SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
POLI SCI 637	Comparative Political Economy	3-4	SCAND ST 450	Scandinavian Decadence in its European Context	3-4
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4	SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4	SCAND ST 476	Scandinavian Life and Civilization II	4
<b>PORTUGUESE</b>			SCAND ST 501	Tal Och Skrift	2
PORTUG 361	Portuguese Civilization	3	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
<b>SCANDINAVIAN STUDIES</b>			SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 276	Scandinavian Life and Civilization	3	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
SCAND ST 284	The "Scandinavian Modern" Phenomenon in Arts and Literature	3	<b>SLAVIC</b>		
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4	SLAVIC 242	Literatures and Cultures of Eastern Europe	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SLAVIC 245	Topics in Slavic Literatures	3
SCAND ST 375	The Writings of Hans Christian Andersen	3-4	SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	4
SCAND ST 411	Areas in Scandinavian Literature	1	SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	4
SCAND ST 414	History of the Scandinavian Languages I: Proto- to Common Scandinavian	3	SLAVIC 285	Slavic Culture in Context: An Honors Course	3
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	3	SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
SCAND ST 419	Scandinavian Children's Literature	4	SLAVIC 309	Russian Area Studies on Study Abroad	1-4
SCAND ST 420	The Woman in Scandinavian Literature	4	SLAVIC 310	Topics in Russian: Study Abroad	1-6
SCAND ST 422	The Drama of Henrik Ibsen	4	SLAVIC/ RELIG ST 325	Eastern Christianity/Russian Orthodoxy in a Global Context	3
SCAND ST 423	The Drama of August Strindberg	4	SLAVIC 433	History of Russian Culture	3
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4	SLAVIC 434	Contemporary Russian Culture	3
SCAND ST 425	Knut Hamsun and the 20th Century Norwegian Novel	4	SLAVIC/ THEATRE 532	History of Russian Theatre	3
SCAND ST 426	Kierkegaard and Scandinavian Literature	4	<b>SOCIOLOGY</b>		
SCAND ST 427	Contemporary Scandinavian Literature	4	SOC 497	Study Abroad in Sociology	1-6
SCAND ST 429	Mythology of Scandinavia	4	SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SCAND ST/ MEDIEVAL 430	The Vikings	4	<b>SPANISH</b>		
SCAND ST/ HISTORY 431	History of Scandinavia to 1815	3	SPANISH/ INTL BUS 329	Spanish for Business	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SPANISH 359	Spanish Business Area Studies	3
SCAND ST 433	The Scandinavian Tale and Ballad	4	SPANISH 361	Spanish Civilization	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SPANISH 468	Topics in Hispanic Culture	3
SCAND ST 435	The Icelandic Sagas	4			



**LATIN AMERICA**

Code	Title	Credits
<b>ANTHROPOLOGY</b>		
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 327	Peoples of the Andes Today	3
ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	1-6
<b>FOLKLORE</b>		
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4
FOLKLORE/ DS 655 655	Comparative World Dress	3
<b>GEOGRAPHY</b>		
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
<b>HISTORY</b>		
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY 242	Modern Latin America, 1898 to the Present	4
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY 555	History of Brazil	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
<b>INTEGRATED LIBERAL STUDIES</b>		
ILS 209	Introduction to Global Cultures	3
<b>INTERNATIONAL STUDIES</b>		
INTL ST 101	Introduction to International Studies	3-4
<b>LITERATURE IN TRANSLATION</b>		

LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
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**POLITICAL SCIENCE**

POLI SCI 120	Politics Around the World	4
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 313	Bargaining in the Global Economy	3-4
POLI SCI 321	Latin-American Politics	3-4
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4
POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

**PORTUGUESE**

PORTUG 362	Brazilian Civilization	3
PORTUG 364	Historical and Cultural Traditions of Brazil	2
PORTUG 640	Topics in Luso-Brazilian Literature	3

**SOCIOLOGY**

SOC 497	Study Abroad in Sociology	1-6
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**SPANISH**

SPANISH/ INTL BUS 329	Spanish for Business	3
SPANISH 359	Spanish Business Area Studies	3
SPANISH 361	Spanish Civilization	3
SPANISH 468	Topics in Hispanic Culture	3

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

Senior Lecturer  
dward@bus.wisc.edu

## SUPPLY CHAIN MANAGEMENT, SPECIALIZATION

The field of supply chain management (SCM) is a critical area of competitive advantage for businesses around the world. SCM integrates business functions concerned with the movement of goods, services and information along the value chain with the goal of creating value for the end customer. SCM is a cross-functional discipline involving many components of business including product development, marketing, demand/supply planning, sourcing, production, inventory, logistics, customer service, and the relationships between businesses and their channels of distribution. In today's complex business environment, there is a need to coordinate these supply chain functions not only within the firm, but with business partners and customers. As a result, SCM is a critical, strategic component of business, and students with SCM education and expertise are in high demand in the marketplace.

The supply chain management specialization is open to all undergraduate students enrolled in the School of Business and is administered by the Grainger Center for Supply Chain Management at the School of Business. In addition to the BBA requirements, students complete an 18-credit curriculum required for the specialization. Students will also have the opportunity to interact with business leaders, participate in experiential learning and social activities, have access to a global trip/experience, and be eligible for scholarship opportunities from the Grainger Center.

Each semester, the Center offers an informational workshop, From A to Z: Careers in Supply Chain Management, to help interested students learn about the specialization. At this event students will be exposed to the curriculum and potential career opportunities in the field, as well as network with current students, alumni, and corporate partners. Information about future A to Z events will be posted to the MyBiz blog (<https://bus.wisc.edu/bba/mybiz>).

For questions or additional information about the specialization in supply chain management, please visit the Grainger Center (3450 Grainger Hall) or call 608-262-0710.

The Supply Chain Management Specialization is only for students in the School of Business.

Students interested in pursuing the supply chain management specialization must complete an application to verify the degree plan, including a resume review by the BBA Advising Center. All applications will also include a meeting with the Grainger Center staff in 3452 Grainger Hall

## HOW TO GET IN

The supply chain management specialization is only for students in the School of Business.

## APPLICATION

Application for students in the School of Business who were **admitted before fall 2016** can be found here (<http://bus.wisc.edu/~media/bus/>)

## LEARNING OUTCOMES

1. Students will understand how the functioning of global markets can impact the planning and executing of international business strategies.
2. Students will be able to apply and extend their core disciplinary knowledge from their chosen major into a region of emphasis and using their selected language.
3. Students will be able to apply their learning from their residential UW-Madison School of Business experiences to a Study Abroad experience.

## ADVISING AND CAREERS

### ADVISING

Ariel Sorenson  
Academic Advisor  
ariel.sorenson@wisc.edu

Please visit the advising page ([https://bus.wisc.edu/bba/academics-and-programs/majors/~link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&z=z](https://bus.wisc.edu/bba/academics-and-programs/majors/~link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&z=z)) for information on advising and appointments.

### CAREERS

A limited number of multi-national organizations offer graduates international career opportunities earlier in their career. In international business, however, most businesses require their employees to work in their United States office(s) for three to five years before assigning significant international responsibility.

Learn more about careers in international business on the BBA International Business website (<https://bus.wisc.edu/bba/academics-and-programs/majors/international-business>).

## PEOPLE

### FACULTY AND STAFF IN INTERNATIONAL BUSINESS

Antonio Mello (<https://bus.wisc.edu/faculty/Antonio-Mello>), BS, MBA, MA, Ph.D.  
Professor  
Academic Director of the Nicholas Center for Corporate Finance and Investment Banking  
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Sachin Tuli (<https://bus.wisc.edu/faculty/sachin-tuli>), BBA, MS  
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sachin.tuli@wisc.edu

David Ward (<https://bus.wisc.edu/faculty/david-ward>), BA, MA, Ph.D.

bba/academics/majors/scm/scmspecializationapp\_students-in-wsb-prior-to-fall-2016.pdf?la=en).

Application for students in the School of Business who were **admitted fall 2016 or after** can be found here ([https://bus.wisc.edu/~media/bus/bba/academics/majors/scm/scmspecializationapp\\_rev-september-2016.pdf?la=en](https://bus.wisc.edu/~media/bus/bba/academics/majors/scm/scmspecializationapp_rev-september-2016.pdf?la=en)).

Once the application is complete, including the resume review, students should stop by the Grainger Center (3450 Grainger Hall) or call 608-262-0710 to schedule an appointment to enroll.

## REQUIREMENTS

In addition to the required courses below, students are also required to attend 4 applied learning events each year, keep up with resume reviews and updates, and report all job and internship offers to the Grainger Center and BBA Career office.

If you are interested in this specialization, more details about the applied learning events and other benefits will be offered upon declaration. Attending these events makes students eligible for specialization benefits including scholarships, global trip, etc.

Code	Title	Credits
<b>REQUIRED COURSES FOR STUDENTS ADMITTED TO THE SCHOOL OF BUSINESS BEFORE FALL 2016.</b>		
MARKETNG/OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG/OTM 422	Logistics Management	3
MARKETNG 423	Procurement & Supply Management	3
MARKETNG 425	Marketing Channels	3
MARKETNG 427	Enterprise Systems and Supply Chain Management	3
<i>Select ONE of the following three courses:</i>		3
OTM 351	Principles and Techniques of Quality Management	
OTM 451	Service Operations Management	
OTM 654	Production Planning and Control	
Total Credits		18

Code	Title	Credits
<b>REQUIRED COURSES FOR STUDENTS ADMITTED TO THE SCHOOL OF BUSINESS FALL 2016 OR AFTER</b>		
MARKETNG/OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG/OTM 422	Logistics Management	3
MARKETNG 423	Procurement & Supply Management	3
MARKETNG 425	Marketing Channels	3
MARKETNG 427	Enterprise Systems and Supply Chain Management	3
<i>Select ONE of the following three courses:</i>		3
MARKETNG 365	Contemporary Topics (Creating Breakthrough New Products)	
OTM 365	Contemporary Topics (Operations Analytics)	

OTM 451	Service Operations Management
Total Credits	18

## ADVISING AND CAREERS

### ADVISING

Jackie Murray ([jackie.murray@wisc.edu](mailto:jackie.murray@wisc.edu)) is the academic advisor in the BBA Program for the supply chain specialization. Tara Milliken ([tara.milliken@wisc.edu](mailto:tara.milliken@wisc.edu)) is the career advisor in the BBA Program for the supply chain specialization.

### CAREER

Students enrolled in the supply chain management specialization consistently have access to excellent internship opportunities and earn some of the highest salaries at the School of Business. The average full-time salary for members of the graduating class of 2016 with a supply chain management specialization was approximately \$57,000, while the average monthly internship salary was \$3,200.

Some of the companies that recruit students with a specialization in supply chain management include (but are not limited to):

- Amazon
- Best Buy
- BP Americas
- Cargill
- Chrysler
- Cisco Systems
- Georgia-Pacific
- Kimberly-Clark
- Kohler
- Kohl's Department Stores
- Macy's
- Mayo Clinic
- Nestle
- Procter & Gamble
- Target Corporation
- Uline
- Walgreen's Corporate

## PEOPLE

### FACULTY AND STAFF IN SUPPLY CHAIN MANAGEMENT

Robert Batt (<https://bus.wisc.edu/faculty/robert-batt>), BA, MBA, Ph.D.  
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## FINANCE, INVESTMENT, AND BANKING

The finance curriculum prepares students for careers in corporate financial management, the investments and securities business, and the management of financial institutions—e.g., banks and insurance companies. The theory of finance and its applications are emphasized. Students learn about: security analysis and valuation, security trading, government policy and financial markets, financial forecasting, capital structure, financial risk management, venture capital, security issuance and international finance.

### DEGREES/MAJORS/CERTIFICATES

- Business: Finance, Investment, and Banking, BBA (p. 1204)

## BUSINESS: FINANCE, INVESTMENT, AND BANKING, BBA

### OVERVIEW

The finance curriculum prepares students for careers in corporate financial management, the investments and securities business, and the management of financial institutions—e.g., banks and insurance companies. The theory of finance and its applications are emphasized. Students learn about: security analysis and valuation, security trading, government policy and financial markets, financial forecasting, capital structure, financial risk management, venture capital, security issuance and international finance.

A significant part of the coursework teaches you to understand risk and uncertainty, both at an intuitive level and at a technical level. More important, you learn to construct models of financial decisions—e.g., an investor's portfolio choice problem, the issuance of securities by corporations and the structure of financial investments by banks.

### RELATED STUDENT ORGANIZATIONS

Capital Management Club (<https://win.wisc.edu/organization/capitalmanagementclub>)

Fantasy Sports & Finance Club (<https://win.wisc.edu/organization/fsf>)

Finance & Investment Society (<https://win.wisc.edu/organization/fis>)

Investment Banking Club (<https://win.wisc.edu/organization/ibc>)

Society of Personal Investments (<https://win.wisc.edu/organization/SPI>)

Wealth Management Group (<https://win.wisc.edu/organization/WMG>)

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to

satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## FINANCE MAJOR REQUIREMENTS

Undergraduate finance majors should enroll in GEN BUS 306 Business Analytics I or its equivalent as early as possible in preparation for this major. Before enrolling in FINANCE/ECON 320 Investment Theory, FINANCE 325 Corporation Finance, or FINANCE 330 Derivative Securities, students must complete:

1. FINANCE/ECON 300 Introduction to Finance;
2. MATH 213 Calculus and Introduction to Differential Equations or MATH 222 Calculus and Analytic Geometry 2;
3. Either complete or concurrently enroll for GEN BUS 307 Business Analytics II (or its equivalent).

ACCT I S 301 Financial Reporting I must be completed before enrolling for FINANCE 325 Corporation Finance.

Students planning on a major in finance should complete FINANCE/ECON 300, GEN BUS 307 (or equivalent) and ACCT I S 301 in or before the first semester of their junior year. FINANCE/ECON 320, FINANCE 325, or FINANCE 330 should be completed prior to a summer internship. Ideally, the mathematics requirement should be completed prior to admission to the School of Business, but if not, then MATH 213 Calculus and Introduction to Differential Equations or MATH 222 Calculus and Analytic Geometry 2 should be completed as early as possible. Finance majors should also be aware of enforced prerequisites for other finance courses.

Code	Title	Credits
MATH 213	Calculus and Introduction to Differential Equations	3
	or MATH 222	Calculus and Analytic Geometry 2
GEN BUS 307	Business Analytics II <sup>1</sup>	3-4
	or ECON 410	Introductory Econometrics
	or STAT/	Introduction to Probability and Mathematical
	MATH 310	Statistics II
	or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
ACCT I S 301	Financial Reporting I	3
FINANCE/ECON 320	Investment Theory	3
FINANCE 325	Corporation Finance	3
FINANCE 330	Derivative Securities	3
Select one of the following:		3-4
FINANCE 305	Financial Markets, Institutions and Economic Activity	
ECON 301	Intermediate Microeconomic Theory	

ECON 302	Intermediate Macroeconomic Theory	
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	
ECON 330	Money and Banking	
Complete one 3-credit Finance course numbered above 400 <sup>2</sup>		3
Total Credits		24-26

<sup>1</sup> GEN BUS 307 Business Analytics II or its equivalent is required to fulfill other requirements within the business curriculum, therefore this requirement double-counts.

<sup>2</sup> FINANCE 340 Fixed Income Securities and FINANCE 365 Contemporary Topics may be used to fulfill this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will be able to explain the trade-off between risk and returns, and to explain methods of measuring and managing risk.
2. Students will use financial models, including those for optimal portfolios and the estimation of expected returns.
3. Students will be able to distinguish between equilibrium and no-arbitrage pricing, and be able to apply both approaches.
4. Students will explain the costs and benefits of the separation of ownership and control in the typical large firm.
5. Students will understand how market frictions can influence financial decisions.
6. Students will be able to explain how investment and financing decisions can create and destroy value.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR FINANCE, INVESTMENT AND BANKING.

Kathleen Rause  
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kathleen.rause@wisc.edu

Hao Yuan  
Academic Advisor  
hao.yuan@wisc.edu

Please see your Student Center for academic advisor contact information. Please visit the advising (<http://www.bus.wisc.edu/bba/mybiz/advising>) page for information on advising and appointments.

### CAREERS

Finance is the integration of time, returns and risk and how they are interrelated. Two pressing questions in finance are:

- What do I invest in?
- How do I pay for it?

Organizations that focus on finance include banks, credit card companies, insurance companies, consumer finance companies, corporations, stock brokerages, investment funds, government sponsored enterprises, education, and individuals.

Students may pursue careers in many different industries, including but not limited to:

- Commercial and retail banking
- Corporate finance
- Investment banking
- Investment management
- Equity and debt capital markets
- Research
- Sales and trading

Find more details about these industries on the BBA Finance Website (<https://bus.wisc.edu/bba/academics-and-programs/majors/finance>).

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## MANAGEMENT & HUMAN RESOURCES

Students in human resources management study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Management studies focus on the activities of leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of organizational functions. Studies in entrepreneurship are designed for students who are interested in bringing new ideas to the marketplace.

The MHR major is designed to give students the choice of which option(s) to study: human resources, management, or entrepreneurship.

## DEGREES/MAJORS/CERTIFICATES

- Business: Management and Human Resources, BBA (p. 1207)
- Entrepreneurship, Certificate (p. 1211)

## BUSINESS: MANAGEMENT AND HUMAN RESOURCES, BBA

Students in human resources management study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Management studies focus on the activities of leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of organizational functions. Studies in entrepreneurship are designed for students who are interested in bringing new ideas to the marketplace.

## RELATED STUDENT ORGANIZATIONS

Collegiate DECA (<https://win.wisc.edu/organization/deca>)  
Enactus (<https://win.wisc.edu/organization/madisonenactus>)

Sales & Executive Leadership (<https://win.wisc.edu/organization/SEL>)  
Sigma Iota Epsilon (SIE)  
Society for Human Resource Management (<https://win.wisc.edu/organization/shrm>)  
Sports Business Club (<https://win.wisc.edu/organization/sportsbusinessclub>)  
Wisconsin Consulting Club (WCC) (<https://win.wisc.edu/organization/wcc>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		

Complete requirements: (p. 1178)

Pre-Business

Liberal Studies

Business Prep

Business Core

Business Breadth

## MANAGEMENT AND HUMAN RESOURCES (MHR) MAJOR REQUIREMENTS

The management and human resources major has three different options to choose from, as outlined below. Credit requirements vary based upon the option(s) students choose.

Code	Title	Credits
<b>Students may complete a major in management and human resources in six different ways:</b> <sup>1</sup>		
	Complete the requirements for the Management option only (students still earn a major in MHR)	12
	Complete the requirements for the Human Resources option only (students still earn a major in MHR)	12
	Complete the requirements for the Entrepreneurship option only (students still earn a major in MHR)	12
	Complete the requirements for Management & Entrepreneurship	18
	Complete the requirements for Management & Human Resources	18
	Complete the requirements for Entrepreneurship & Human Resources	21

<sup>1</sup> **Note:** Completing two options still constitutes **one** major. Students may not receive credit for completing all three options.

In addition, the following rules apply when combining options:

- Students may complete only two of three options. Students interested in pursuing two options should see an academic advisor to ensure that they are taking their courses efficiently.
- For successful completion of TWO options, a student must take a minimum of 18–21 credits from among the listed courses.
- Double (or triple) counting of M H R 399 Reading and Research-Management across options within the management major is prohibited.

## MHR OPTIONS AND REQUIREMENTS

### ENTREPRENEURSHIP OPTION

A student must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 422	Entrepreneurial Management	3
M H R 427	Entrepreneurial Growth Strategies	3
	Select two of following courses OR one from below and one from the elective options:	6
M H R 399	Reading and Research-Management (Double counting of MHR 399 across options within the MHR major is prohibited.)	
M H R 434	Venture Creation	
FINANCE 457	Entrepreneurial Finance	

Electives

M H R 305	Human Resource Management	
M H R/ ENVIR ST 310	Challenges & Solutions in Business Sustainability	
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management (Double counting of MHR 399 across options within the MHR major is prohibited.)	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
M H R 423	Strategic Management	
M H R 441	Technology Entrepreneurship	
M H R 628	Negotiations	
Total Credits		12

### HUMAN RESOURCES OPTION

Students in human resources management study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Topics covered include recruiting, external and internal staffing, compensation theory and administration, performance management, training and development, labor-management relations, and equal employment opportunity. This concentration is pursued by students seeking staff jobs in the human resources department, supervisory and team leader jobs, and entry into management training programs that precede job placement. It is appropriate for those who seek positions in both public and private sector organizations.

A student must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 305	Human Resource Management	3
Complete 3 of the following OR two of the following and one elective:		9-10
M H R 610	Compensation: Theory and Administration	
M H R 611	Personnel Staffing and Evaluation	
M H R 612	Labor-Management Relations	
<i>Electives</i>		
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management (Double counting of MHR 399 across options within the MHR major is prohibited.)	
M H R 423	Strategic Management	
M H R 471	Seminar: Human Resources Issues	
R M I 620	Employee Benefits Management	
M H R 628	Negotiations	
ECON 450	Wages and the Labor Market	
Total Credits		12-13

### MANAGEMENT OPTION

This major focuses on the activities of management in organizations. Course material covers leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of



organizational functions (such as marketing and finance). The topics apply to business, government, health care, and other service organizations. This concentration is especially appropriate for students who seek roles as general managers and administrators at all levels of an organization, rather than roles as technical specialists. Students are also helped in developing a long-term perspective of both their own careers and the function of management in organizations and society.

Students must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 423	Strategic Management	3
<i>Complete 3 of the following OR 2 of the following and one elective</i>		9
M H R 305	Human Resource Management	
M H R 399	Reading and Research-Management (Double counting of MHR 399 across options within the MHR major is prohibited.)	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
<i>Electives:</i>		
M H R/ ENVIR ST 310	Challenges & Solutions in Business Sustainability	
M H R 365	Contemporary Topics	
M H R 422	Entrepreneurial Management	
M H R 427	Entrepreneurial Growth Strategies	
M H R 628	Negotiations	
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	
COM ARTS 575	Communication in Complex Organizations	
PSYCH/I SY E 653	Organization and Job Design	
PSYCH/I SY E 349	Introduction to Human Factors	
SOC 632	Sociology of Organizations	
SOC/ C&E SOC 649	Sociology of Work and Employment	
Total Credits		12

## ENTREPRENEURSHIP & HUMAN RESOURCES OPTION

This double option requires 21 credits; the layout of classes are found below:

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 422	Entrepreneurial Management	3
M H R 427	Entrepreneurial Growth Strategies	3
M H R 434	Venture Creation	3
or FINANCE 457 or M H R 399	Entrepreneurial Finance Reading and Research-Management	
<i>Complete 3 of the following OR 2 of the following and one elective:</i>		9
M H R 610	Compensation: Theory and Administration	
M H R 611	Personnel Staffing and Evaluation	

M H R 612	Labor-Management Relations	
<i>Electives:</i>		
M H R 399	Reading and Research-Management	
M H R 423	Strategic Management	
M H R 471	Seminar: Human Resources Issues	
M H R 628	Negotiations	
R M I 620	Employee Benefits Management	
Total Credits		21

## MANAGEMENT & ENTREPRENEURSHIP OPTION

This double option requires 18 credits; the layout of classes are found below:

Code	Title	Credits
M H R 422	Entrepreneurial Management	3
M H R 423	Strategic Management	3
M H R 427	Entrepreneurial Growth Strategies	3
M H R 434	Venture Creation	3
or FINANCE 457 or M H R 399	Entrepreneurial Finance Reading and Research-Management	
<i>Choose two of the following:</i>		6
M H R 305	Human Resource Management	
M H R 399	Reading and Research-Management	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
Total Credits		18

## MANAGEMENT & HUMAN RESOURCES OPTION

This double option requires 18 credits; the layout of classes are found below:

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 423	Strategic Management	3
<i>Complete two of the following:</i>		6
M H R 610	Compensation: Theory and Administration	
M H R 611	Personnel Staffing and Evaluation	
M H R 612	Labor-Management Relations	
<i>Complete 2 of the following OR one of the following and one elective:</i>		6
M H R 399	Reading and Research-Management	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
<i>Electives:</i>		
M H R/ ENVIR ST 310	Challenges & Solutions in Business Sustainability	
M H R 365	Contemporary Topics	

M H R 422	Entrepreneurial Management	
M H R 427	Entrepreneurial Growth Strategies	
M H R 628	Negotiations	
Total Credits		18

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will understand that the management of human resources is vital to a successful business strategy and organizational effectiveness. (Human Resources and Management Tracks)
2. Graduates will be able to analyze organization compensation strategy to identify problems and develop solutions that support the organization's strategy. (Human Resources Track)
3. Graduates will be able to discern which staffing techniques are poor, fair, and good predictors of employees' future job performance. (Human Resources Track)
4. Graduates will be able to identify and address the various challenges currently facing labor and employment relations. (Human Resources Track)
5. Graduates will be able to apply appropriate tactics in competitive and cooperative negotiations individually and as part of a negotiation team. (Human Resources Track)
6. Graduates will be able to design work systems and roles that allow employees to contribute to organizational performance. (Human Resources Track)
7. Graduates will be able to develop innovative solutions to challenging problems and generate economic and socially valuable outcomes. (Entrepreneurship Track)
8. Graduates will be able to create, assess, shape, and act on opportunities in a variety of contexts and organizations. (Entrepreneurship Track)
9. Graduates will be able to make decisions based on mindfulness of relevant stakeholders, ethical reflections, and an attempt to create and sustain social, environmental, and economic value. (Entrepreneurship Track)

10. Graduates will be able to incorporate cultural context and complexities when managing in a global environment. (Entrepreneurship Track)
11. Graduates will be able to exercise appropriate leadership, value diverse perspectives, and work collaboratively to accomplish organizational objectives in a dynamic environment. (Entrepreneurship Track)
12. Graduates will be able to develop successful team structures that mitigate decision-making pitfalls and interpersonal conflict while maximizing team performance. (Management Track)
13. Graduates will be able to design successful organization structures to achieve strategic objectives and execute operational plans within a global business environment. (Management Track)
14. Graduates will be able to diagnose management and organizational problems from an internal or external consultant's perspective and design interventions to enhance organizational effectiveness. (Management Track)
15. Graduates will be able to evaluate an organization's internal capabilities and external pressures and maximize its competitive advantage within an industry. (Management Track)

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR MHR.

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### CAREERS

Students who pursue a major in Management go on to careers in a wide range of fields. To find more information about common industries that management majors work in following graduation, please visit our website (<https://bus.wisc.edu/bba/academics-and-programs/majors/management-human-resources/management>).

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## ENTREPRENEURSHIP, CERTIFICATE

The undergraduate certificate in entrepreneurship (<http://bus.wisc.edu/bba/academics-and-programs/majors/certificate-entrepreneurship>) offers opportunities for **non-business undergraduates** interested in starting a new venture, working for young new ventures soon or later in life, and tackling new ventures inside existing organizations. Knowledge and skills emphasize imagining new opportunities, taking steps to create a new organization, finding funding for new ventures, and managing growth or exit events, along with critical analysis of the role of entrepreneurship in society. Visit the website (<http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors->

specializations-certificates/certificate-entrepreneurship) for more information.

This certificate program offers a distinct bundle of courses that span business entrepreneurship courses and the curricula of several colleges and schools at UW–Madison. It emphasizes skills in entrepreneurship, creativity, and innovation along with the ability to analyze the role of entrepreneurship in society.

Entrepreneurship in this context refers to the process of imagining opportunities and taking action to create value through new ventures. The ability to create value through new ventures is a crucial life skill. Further, new firm creation can be a critical factor in global economic growth, and entrepreneurial capabilities can be crucial in bringing new technologies and services to society.

## HOW TO GET IN

The certificate is open to undergraduate students who have home departments outside of the School of Business and are in good standing. Business undergraduates should explore the entrepreneurship major option.

To declare the certificate in entrepreneurship, please complete the declaration form ([https://buswisc.qualtrics.com/jfe/form/SV\\_8JkBSs6YnaKxb7f](https://buswisc.qualtrics.com/jfe/form/SV_8JkBSs6YnaKxb7f)).

## REQUIREMENTS

A total of 15 credits is required to complete the certificate. The required foundation course, advanced entrepreneurship coursework, and electives from across the campus are used to earn the 15 credits. Coursework options available for fulfilling the certificate program is shown in the accompanying tables. Students are strongly encouraged to participate in related non-credit entrepreneurship immersion experiences such as competitions and student organizations.

### Students will:

1. Take one 3-credit required foundation course (M H R 322 OR M H R 422)
2. Choose 3 additional credits from a list of related School of Business advanced entrepreneurship coursework
3. Choose 9 credits of additional courses from a list of other elective coursework or advanced entrepreneurship coursework.

**At least 9 of the required 15 credits for the certificate must be completed in residence.**

**Students must earn a 2.5 cumulative GPA in all certificate in entrepreneurship coursework.**

## REQUIRED FOUNDATION COURSEWORK

Code	Title	Credits
M H R 322	Introduction to Entrepreneurial Management (restricted to non-business majors)	3
or M H R 422	Entrepreneurial Management	

## ADVANCED ENTREPRENEURSHIP COURSEWORK <sup>1</sup>

Students must choose **at least 3 credits** from the following list of courses:

Code	Title	Credits
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors <sup>2</sup>	3
or ACCT I S 100	Introductory Financial Accounting	
or ACCT I S 300	Accounting Principles	
M H R 434	Venture Creation	3
M H R 427	Entrepreneurial Growth Strategies	3
M H R 441	Technology Entrepreneurship	3
FINANCE 457	Entrepreneurial Finance	3

<sup>1</sup> Some courses listed have pre-requisites, so please make sure those are satisfied before selecting a course.

<sup>2</sup> Non-business majors are strongly recommended to take GEN BUS 310 **instead of** ACCT I S 100 or ACCT I S 300.

## ELECTIVE COURSEWORK

9 credits of other elective coursework (below) can be counted toward the required 15 certificate credits.

Code	Title	Credits
<b>BUSINESS</b>		
GEN BUS 365	Contemporary Topics (Business and the Social Side of Sustainability OR Issues in Family Business Ownership)	1-3
GEN BUS 600	Topics on Sustainable Business Practices	3
GEN BUS/ ENVIR ST 601	Systems Thinking and Sustainable Businesses	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
M H R 300	Managing Organizations	3
M H R 305	Human Resource Management	3
M H R 321	Social Entrepreneurship (restricted to ERLC students)	1
M H R 365	Contemporary Topics (Summer Internship, Art Enterprise: Art as Business Art, Leadership Development I & II)	1-3
M H R/A A E 540	Intellectual Property Rights, Innovation and Technology	3
MARKETNG 300	Marketing Management	3
MARKETNG 355	Marketing in a Digital Age	3
MARKETNG 365	Contemporary Topics (Developing Breakthrough New Products)	1-3
R M I 300	Principles of Risk Management	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
REAL EST/A A E/ ECON/URB R PL 306	The Real Estate Process	3

REAL EST 415 Valuation of Real Estate 3

#### ENVIRONMENTAL STUDIES

ENVIR ST 402 Special Topics: Social Perspectives in Environmental Studies (ONLY 'People, Environment, and Sustainability') 1-4

#### COLLEGE OF LETTERS AND SCIENCE

COM ARTS 355 Introduction to Media Production 4

ECON/A A E/ ENVIR ST/ URB R PL 671 Energy Economics 3

INTL ST/A A E 373 Globalization, Poverty and Development 3

JOURN 447 Strategic Media Planning 4

PHILOS 243 Ethics in Business 3-4

SOC/C&E SOC 245 Technology and Society 3

SOC 496 Topics in Sociology (Leadership Seminar) 1-3

STS 201 Where Science Meets Society 3

#### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

A A E/INTL ST 373 Globalization, Poverty and Development 3

A A E/M H R 540 Intellectual Property Rights, Innovation and Technology 3

A A E/ECON/ ENVIR ST/ URB R PL 671 Energy Economics 3

LSC 250 Research Methods in the Communication Industry 3

LSC 270 Communication in Life Science Industries 3

LSC 350 Visualizing Science and Technology 3

LSC 431 Advertising in the Life Sciences 3

LSC 432 Social Media for the Life Sciences 3

LSC 435 Theory and Practice of Integrated Marketing Communication 3

LSC 440 Contemporary Communication Technologies and Their Social Effects 3

LSC 625 Risk Communication 3

LSC 640 Case Studies in the Communication of Science and Technology 3

#### COLLEGE OF ENGINEERING

E P D 690 Special Topics in Engineering Professional Development (Business and Entrepreneurism for Engineers) 1-3

INTEREGR 601 Topics in Interdisciplinary Engineering (Process Innovation: Concept-Select-Commercialize) 1-3

I SY E 313 Engineering Economic Analysis 3

I SY E/M E 513 Analysis of Capital Investments 3

I SY E/B M E 662 Design and Human Disability and Aging 3

I SY E/OTM/INFO SYS 671 E-Business: Technologies, Strategies and Applications 3

M E 349 Engineering Design Projects 3

M E 351 Interdisciplinary Experiential Design Projects I 3

M E 352 Interdisciplinary Experiential Design Projects II 3

M E 549 Product Design 3

#### SCHOOL OF HUMAN ECOLOGY

CSCS 455 Entrepreneurialism and Society 3

CNSR SCI 250 Retail Leadership Symposium 1

CNSR SCI 257 Introduction to Retailing 2

CNSR SCI 555 Consumer Strategy & Evaluation 3

CNSR SCI 561 Retail Channel Strategy & Omni-Channel Retailing 3

CNSR SCI 567 Product Development Strategies in Retailing 3

#### MUSIC/THEATRE/ART

MUSIC/ART/ THEATRE 469/ M H R 365 Interdisciplinary Studies in the Arts (Art Enterprise: Art as Business Art) 3

ART 338 Service Learning in Art 2

THEATRE 501 The Business of Acting 3

THEATRE 619 Special Topics in Theatre and Drama (The Business of the Business) 1-3

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Academic advising for the CIE is available in the BBA Advising Center, 3150 Grainger Hall. Questions can be directed to the CIE Advisor, Katie Denzin (katie.denzin@wisc.edu).

## PEOPLE

### EXECUTIVE OPERATING COMMITTEE

**Jon Eckhardt**, Executive Director, Weinert Center for Entrepreneurship

**Dan Olszewski**, Director, Weinert Center for Entrepreneurship

**John Surdyk**, Director, Initiative for the Studies in Transformational Entrepreneurship (INSITE)

**Charlie Trevor**, Department Chair and Professor, Management and Human Resources

**Russ Coff**, Executive Director, Initiative for the Studies in Transformational Entrepreneurship (INSITE)

## MARKETING

Marketing creates exchanges between organizations and customers. It includes planning, designing, pricing, promoting and distributing goods and services that satisfy organizational and customer needs. In the high-level economy of the United States and many other countries, marketing has become a critical and comprehensive business function. The concept of marketing is becoming increasingly broad and important.

Students may pursue career opportunities in advertising, product/brand management, consulting, marketing research, retailing, sales management, business-to-business marketing, and supply chain management.

Contemporary marketing managers must understand not only the traditional areas of marketing channels, sales management, advertising, and research, but must also be familiar with consumer and dealer motivation. The manager must be able to translate knowledge of consumer behavior into marketing strategy. The marketing program is broad enough to permit a major to develop knowledge in these several areas, but flexible enough so that students may focus on special interest areas.

## DEGREES/MAJORS/CERTIFICATES

- Business: Marketing, BBA (p. 1214)

## BUSINESS: MARKETING, BBA

### OVERVIEW

In the high-level economy of the United States and many other countries, marketing has become a critical and comprehensive business function. The concept of marketing is becoming increasingly broad and important. Students may pursue career opportunities in advertising, product/brand management, consulting, marketing research, retailing, sales management, business-to-business marketing, and supply chain management.

Contemporary marketing managers must understand not only the traditional areas of marketing channels, sales management, advertising, and research, but must also be familiar with consumer and dealer motivation. The manager must be able to translate knowledge of consumer behavior into marketing strategy. The marketing program is broad enough to permit a major to develop knowledge in these several areas, but flexible enough so that students may focus on special interest areas.

### RECOGNITION

Our marketing program is ranked 9th in the U.S. by *U.S. News & World Report* 2016.

### RELATED STUDENT ORGANIZATIONS

Mu Kappa Tau (MKT) (<https://win.wisc.edu/organization/MKT>)  
American Marketing Association (AMA) (<https://win.wisc.edu/organization/amauwmadison>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### MARKETING MAJOR REQUIREMENTS

All marketing majors must take MARKETNG 300 Marketing Management since it is a business core course and a prerequisite to all of the other undergraduate marketing courses. The marketing major consists of three required marketing courses plus three additional elective marketing courses in addition to MARKETNG 300. These required and elective marketing courses can be taken in any order, except that MARKETNG 460

Marketing Strategy should only be taken after completing a minimum of two marketing courses beyond MARKETNG 300.

Code	Title	Credits
MARKETNG 305	Consumer Behavior	3
MARKETNG 310	Marketing Research	3
MARKETNG 460	Marketing Strategy	3
<b>Elective Coursework<sup>1</sup></b>		
Select three of the following:		9
MARKETNG 335	Brand Management & Strategy	
MARKETNG 355	Marketing in a Digital Age	
MARKETNG 365	Contemporary Topics (Developing Breakthrough New Products or Sports Marketing)	
MARKETNG 399	Reading and Research-Marketing	
MARKETNG 415	Marketing Communications	
MARKETNG/ INTL BUS 420	Global Marketing Strategy	
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	
MARKETNG/ OTM 422	Logistics Management	
MARKETNG 423	Procurement & Supply Management	
MARKETNG 425	Marketing Channels	
MARKETNG 427	Enterprise Systems and Supply Chain Management	
MARKETNG 430	Strategic Pricing	
MARKETNG 450	Marketing Analytics	
MARKETNG 635	Sales Management	
MARKETNG 640	Strategic Retailing	
Total Credits		18

<sup>1</sup> Elective coursework may follow a specific "track" if students choose. Below are options for coursework related to specific marketing career tracks.

## POTENTIAL MARKETING CAREER AND COURSEWORK TRACKS

These tracks are provided to guide elective choices. They are not official major tracks or emphasis areas.

### PRODUCT/BRAND MANAGEMENT

Code	Title	Credits
<b>Recommended Electives</b>		
MARKETNG 335	Brand Management & Strategy	3
MARKETNG 365	Contemporary Topics (Developing Breakthrough New Products)	3
MARKETNG 415	Marketing Communications	3
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
MARKETNG 425	Marketing Channels	3
MARKETNG 460	Marketing Strategy	3

### RETAILING AND WHOLESALING

Code	Title	Credits
<b>Recommended Electives</b>		
MARKETNG 335	Brand Management & Strategy	3
MARKETNG 365	Contemporary Topics	3
MARKETNG 415	Marketing Communications	3
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG 423	Procurement & Supply Management	3
MARKETNG 425	Marketing Channels	3
MARKETNG 640	Strategic Retailing	3

### SALES MANAGEMENT; BUSINESS-TO-BUSINESS MARKETING; SUPPLY CHAIN MANAGEMENT

Code	Title	Credits
<b>Recommended Electives</b>		
MARKETNG 365	Contemporary Topics	3
MARKETNG 415	Marketing Communications	3
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG/ OTM 422	Logistics Management	3
MARKETNG 423	Procurement & Supply Management	3
MARKETNG 425	Marketing Channels	3
MARKETNG 635	Sales Management	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Graduates will be able to apply analytical rigor to marketing decisions.
2. Graduates will be able to locate, evaluate, and leverage relevant sources to determine and support their marketing actions.

3. Graduates will demonstrate the ability to formulate and implement marketing strategies related to price, product, promotion, and distribution.
4. Graduates will evaluate and analyze appropriate market segments and generate effective marketing plans.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR MARKETING.

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Angie Badura

Career Advisor

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Please visit the advising ([https://bus.wisc.edu/bba/academics-and-programs/majors/~/link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&\\_z=z](https://bus.wisc.edu/bba/academics-and-programs/majors/~/link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&_z=z)) page for information on advising and appointments.

### CAREERS

Marketing is the activity, set of institutions, and processes for creating, communicating, delivering, and exchanging offerings that have value for customers, clients, partners, and society at large. Marketing is creating and delivering customer value through decisions about product and service offerings. It's more than just a transaction! It's about understanding and building relationships.

For information about marketing careers, please visit the BBA Marketing website (<https://bus.wisc.edu/bba/academics-and-programs/majors/marketing>).

## PEOPLE

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## OPERATIONS AND INFORMATION

The Department of Operations and Information Management administers both the operations and technology management major and the information systems major.

The operations and technology management (OTM) major focuses on the design, production, and delivery of products and services to satisfy customer needs. It equips students with the essential tools and strategies to use resources efficiently, make desirable trade-offs, and strategically redesign or restructure operations. OTM majors distinguish themselves by strong analytical and problem-solving capabilities together with the ability to provide high-level managerial insights into value-based service and production management.

Built on a solid foundation of a business and information technology (IT) curriculum, the major in information systems delivers a unique

blend of business acumen, industry standards, and practical computing instruction. Students enjoy successful placement and satisfying careers because they possess both the in-depth knowledge of business processes and the ability to readily translate business requirements into value-added IT solutions. The curriculum is designed to prepare effective leaders in the design, development, and management of information systems—the lifeblood of a successful business model. Students learn how to use computer technologies to analyze business problems and processes in order to design and implement computer-based information systems which support business operations, decision-making, and planning. Career opportunities exist in management consulting and in industry in the areas of systems development, database administration, network management and as corporate information systems managers.

## DEGREES/MAJORS/CERTIFICATES

- Business: Information Systems, BBA (p. 1217)
- Business: Operations and Technology Management, BBA (p. 1220)

## BUSINESS: INFORMATION SYSTEMS, BBA

### OVERVIEW

Built on a solid foundation of a business and information technology (IT) curriculum, the major in information systems delivers a unique blend of business acumen, industry standards, and practical computing instruction. Students enjoy successful placement and satisfying careers because they possess both the in-depth knowledge of business processes and the ability to readily translate business requirements into value-added IT solutions. The curriculum is designed to prepare effective leaders in the design, development, and management of information systems—the lifeblood of a successful business model. Courses emphasize both individual and team projects based on actual applications of the subject matter.

The major in information systems is administered by the Department of Operations and Information Management.

### RELATED STUDENT ORGANIZATIONS

Association of Information System Professionals  
National Organization for Business and Engineering

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## INFORMATION SYSTEMS MAJOR REQUIREMENTS

The information systems major is a total of 15 credits, distributed as follows:

Code	Title	Credits
COMP SCI 301	Introduction to Data Programming	3
INFO SYS 365	Contemporary Topics	3
INFO SYS/ COMP SCI 371	Technology of Computer-Based Business Systems	3
INFO SYS 422	Computer-Based Data Management	3
INFO SYS 424	Analysis and Design of Computer-Based Systems	3
Total Credits		15

## SUGGESTED ELECTIVES RELATED TO INFORMATION SYSTEMS

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
INFO SYS 365	Contemporary Topics	1-3
I SY E/PSYCH 349	Introduction to Human Factors	3
I SY E 575	Introduction to Quality Engineering	3
I SY E 601	Special Topics in Industrial Engineering	1-3
MARKETNG 310	Marketing Research	3
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG 427	Enterprise Systems and Supply Chain Management	3
M H R 412	Management Consulting	3
M H R 422	Entrepreneurial Management	3
M H R 423	Strategic Management	3
OTM 351	Principles and Techniques of Quality Management	3
OTM 365	Contemporary Topics (Project Management)	3
OTM 365	Contemporary Topics (Operations Analytics)	3
OTM 451	Service Operations Management	3
OTM 654	Production Planning and Control	3

## UNIVERSITY DEGREE REQUIREMENTS

#### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Students will understand how to manage data, model information, and apply appropriate information technology to create effective business solutions.
- Students will understand how to use computer technologies to analyze business problems and processes.

- Students will design and implement computer-based information systems which support business operations, decision-making, and planning.
- Students will develop proficiency in project management, consulting, teamwork, conflict resolution, time management, and oral and written communication skills.
- Students will be able to effectively lead organizations in the design, development, and management of information systems.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR INFORMATION SYSTEMS.

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Please visit the advising page (<https://bus.wisc.edu/bba/academics-and-programs/majors/~link.aspx?id=2471B6AB7883436D8817C4E66E0AF1C2&z=z>) for information on advising and appointments.

### CAREERS

Information systems professionals help clients address some of their most complex business problems through the effective use of technology. They see pathways to solutions of highly complex technical issues and are key leaders in conceptualizing and sourcing the best solutions. Information systems professionals collect, store and analyze information and data to assist organizations and departments in executing business initiatives and making informed decisions. Additionally, they use hardware, software, technology infrastructure combined with input from internal or external clients to develop tools to solve and track business objectives.

For more information about careers in information systems, please visit our BBA Info Systems website (<https://bus.wisc.edu/bba/academics-and-programs/majors/information-systems>).

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## BUSINESS: OPERATIONS AND TECHNOLOGY MANAGEMENT, BBA

### OVERVIEW

The operations and technology management (OTM) major focuses on the design, production, and delivery of products and services to satisfy customer needs. It equips students with the essential tools and strategies to use resources efficiently, make desirable trade-offs, and strategically redesign or restructure operations. OTM majors distinguish themselves by strong analytical and problem-solving capabilities together with the ability to provide high-level managerial insights into value-based service and production management.

OTM majors have many career opportunities due to their process orientation and analytical training. They are especially well-equipped for positions in supply chain management and logistics, business analytics, management consulting, service operations management, and manufacturing management.

Students choosing this major may find the Specialization in Supply Chain Management (p. 1202) particularly attractive due to complementary coursework and overlapping job opportunities.

### RELATED STUDENT ORGANIZATIONS

Badger Operations Association (<https://win.wisc.edu/organization/BOA>)

Council of Supply Chain Management Professionals (CSCMP) (<https://cscmp.org>)

American Society for Quality

APICS—The Association for Operations Management (<http://www.apics.org/about/contact>)

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see Entering the School (p. 1173).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## OPERATIONS AND TECHNOLOGY MANAGEMENT (OTM) MAJOR REQUIREMENTS

It is recommended that the undergraduate core course OTM 300 Operations Management be taken as early as possible in preparation for this major.

Code	Title	Credits
OTM 451	Service Operations Management	3
OTM 351	Principles and Techniques of Quality Management	3
or OTM 370	Sustainable Approaches to System Improvement	
OTM 365	Contemporary Topics (Operations Analytics)	3
or OTM 410	Operations Research I	
or OTM 411	Operations Research II	
OTM 654	Production Planning and Control	3

or OTM/ MARKETNG 421	Fundamentals of Supply Chain Management	
or MARKETNG 427	Enterprise Systems and Supply Chain Management	
Complete two elective courses from the suggested tracks (found below)		6
Total Credits		18

## OTM SUGGESTED ELECTIVE COURSES

Any OTM course taken after fulfilling the requirements above will count as an elective course. Non-OTM School of Business courses on the OTM electives list will be used to satisfy the OTM elective requirement first. If the OTM elective requirement is fulfilled, these courses can be used to satisfy the School of Business breadth requirement, provided they are not cross-listed with OTM.

### SUPPLY CHAIN MANAGEMENT

Code	Title	Credits
OTM 351	Principles and Techniques of Quality Management	3
OTM 370	Sustainable Approaches to System Improvement	3
OTM 442	Database Management and Applications	3
OTM 451	Service Operations Management	3
OTM 654	Production Planning and Control	3
OTM/MARKETNG 421	Fundamentals of Supply Chain Management	3
OTM/MARKETNG 422	Logistics Management	3
MARKETNG 423	Procurement & Supply Management	3
MARKETNG 427	Enterprise Systems and Supply Chain Management	3

### BUSINESS ANALYTICS

Code	Title	Credits
OTM 365	Contemporary Topics (Operations Analytics)	3
OTM 442	Database Management and Applications	3
OTM 640	Business Logistics Analysis	3
MARKETNG 310	Marketing Research	3
INFO SYS 365	Contemporary Topics	3
INFO SYS/ COMP SCI 371	Technology of Computer-Based Business Systems	3
INFO SYS 422	Computer-Based Data Management	3
INFO SYS 424	Analysis and Design of Computer-Based Systems	3
INFO SYS/I SY E/ OTM 671	E-Business: Technologies, Strategies and Applications	3

### BUSINESS PROCESS DESIGN AND IMPROVEMENT

Code	Title	Credits
OTM 351	Principles and Techniques of Quality Management	3

OTM 365	Contemporary Topics (Operations Analytics)	3
OTM 370	Sustainable Approaches to System Improvement	3
OTM 442	Database Management and Applications	3
OTM 451	Service Operations Management	3
OTM 640	Business Logistics Analysis	3
ACCT I S 310	Cost Management Systems.	3
INFO SYS 365	Contemporary Topics	3
INFO SYS/ COMP SCI 371	Technology of Computer-Based Business Systems	3
INFO SYS 422	Computer-Based Data Management	3
INFO SYS 424	Analysis and Design of Computer-Based Systems	3
I SY E 515	Engineering Management of Continuous Process Improvement	3
I SY E/PSYCH 549	Human Factors Engineering	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will understand how to analyze and evaluate business processes combined with a capability for improving those processes.
2. Graduates will understand how the effects of increased utilization and variability impact process capacity and flow times, and will be able to suggest approaches to improve system performance.
3. Graduates will be able to build analytical models to solve business problems.
4. Graduates will be able to articulate the commonalities and differences between service and manufacturing processes, and be able to manage and make improvements within either context.

- Graduates will be able to apply principles of supply chain management in business contexts.
- Graduates will be able to analyze and implement operational business decisions from both strategic and tactical perspectives.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR OTM.

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Jackie Murray  
Academic Advisor  
jackie.murray@wisc.edu

Please see your Student Center for academic advisor contact information. Please visit the advising ([https://bus.wisc.edu/bba/academics-and-programs/majors/~link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&\\_z=z](https://bus.wisc.edu/bba/academics-and-programs/majors/~link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&_z=z)) page for information on advising and appointments.

### CAREERS

All products and services—from cars to surgeries—are delivered by organized systems. It's the job of operations managers to make sure those activities occur when they are planned, in the right way, in the right quantity, and with the right quality. Operations Management transforms inputs—such as labor, equipment, facilities, materials, energy, and information—into goods and services for customers. To make this all happen, the operations function is responsible for critical activities such as materials management, resource planning, purchasing, scheduling, and quality.

OTM majors from the Wisconsin BBA have a successful placement history. Some recent students have worked at:

Epic (project manager), First Supply (purchasing analyst), Cisco (IT analyst), Fiskars Brand (forecast analyst), Kimberly-Clark (customer inventory analyst), CUNA Mutual Group (staff auditor), RMI, Inc. (supply chain and logistics associate).

Please visit our website (<https://bus.wisc.edu/bba/academics-and-programs/majors/operations-technology-management>) for further details about potential career areas and responsibilities.

## PEOPLE

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## REAL ESTATE

The undergraduate program in real estate provides concentrated coursework in all aspects of the real estate enterprise. The program is nationally renowned for its ability to develop real estate professionals with superb analytical skills. Many of the graduates of the program go on to work as managers of and advisors to pension funds, insurance companies, real estate investment trusts, and investment banks. Other graduates of the program go on to take public and private industry jobs in real estate development, appraisal, corporate real estate asset management, and real estate analysis.

## DEGREES/MAJORS/CERTIFICATES

- Business: Real Estate and Urban Land Economics, BBA (p. 1223)

## BUSINESS: REAL ESTATE AND URBAN LAND ECONOMICS, BBA

### OVERVIEW

The undergraduate program in real estate provides concentrated coursework in all aspects of the real estate enterprise. The program is nationally renowned for its ability to develop real estate professionals with superb analytical skills. Many of the graduates of the program go on to work as managers of and advisors to pension funds, insurance companies, real estate investment trusts, and investment banks. Other graduates of the program go on to take public and private industry jobs in real estate development, appraisal, corporate real estate asset management, and real estate analysis.

### RECOGNITION

Our real estate program is ranked 2nd in the U.S. by *U.S. News & World Report* 2016.

### RELATED STUDENT ORGANIZATIONS

Real Estate Club (<http://www.realestateclub.org>)  
Wisconsin Real Estate Alumni Association (<https://bus.wisc.edu/centers/james-a-graaskamp-center-for-real-estate/alumni-and-friends>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major

they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1173).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1178) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1178)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### REAL ESTATE MAJOR REQUIREMENTS

Students should take REAL EST/A A E/ECON/URB R PL 306 The Real Estate Process as early as possible, as it is a prerequisite for many other real estate courses.

REAL EST 312 Real Estate Law should also be taken early, ideally the semester after REAL EST/A A E/ECON/URB R PL 306.

Please note that the scheduling of REAL EST 312 occasionally conflicts with that of REAL EST/ECON/URB R PL 420 Urban and Regional Economics in the spring semester.

It is strongly recommended that students take REAL EST 415 Valuation of Real Estate before REAL EST 410 Real Estate Finance, or that REAL EST 410 Real Estate Finance and REAL EST 415 be taken concurrently.

REAL EST 611 Residential Property Development should be taken after REAL EST 410 and REAL EST 415.

Code	Title	Credits
REAL EST/A A E/ ECON/URB R PL 306	The Real Estate Process	3
REAL EST 312	Real Estate Law	3
REAL EST 410	Real Estate Finance	3
REAL EST 415	Valuation of Real Estate	3
REAL EST/ECON/ URB R PL 420	Urban and Regional Economics	3
REAL EST 611	Residential Property Development	3
Total Credits		18

## ADDITIONAL COURSES

Undergraduate students are encouraged to take additional electives from among the following real estate and related courses within the School of Business. Electives are typically not offered every semester.

### REAL ESTATE ELECTIVES

Code	Title	Credits
REAL EST 365	Contemporary Topics <sup>1</sup>	3
REAL EST/A A E/ URB R PL 520	Community Economic Analysis	3
REAL EST 651	Green - Sustainable Development	3

<sup>1</sup> The real estate department regularly offers innovative and cutting-edge electives under REAL EST 365 Contemporary Topics. Students should check the Course Guide every semester.

### RELATED COURSES

Code	Title	Credits
FINANCE 305	Financial Markets, Institutions and Economic Activity	3
FINANCE/ECON 320	Investment Theory	3
OTM/I SY E 578	Facilities Location Models	3
OTM 444	Economics of Transportation	3

### RECOMMENDED NON-BUSINESS ELECTIVES

Electives may also be selected outside the business-economics core from among a number of courses elsewhere in the university, which will provide greater professional awareness and more specialized tools.

Code	Title	Credits
ENVIR ST/GEORG 325	Analysis of the Physical Environment	4

ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
BSE/LAND ARC 356	Sustainable Residential Construction	3
LAND ARC 250	Survey of Landscape Architecture Design	3
LAND ARC 351	Housing and Urban Design	4
LAND ARC 451	Open Space Planning and Design	3
SOIL SCI 301	General Soil Science	4
CIV ENGR 340	Structural Analysis I	4
CIV ENGR 498	Construction Project Management	3
ART HIST 368	American Architecture: The 19th Century	3-4
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
URB R PL/GEOG 305	Introduction to the City	3-4
URB R PL/ LAND ARC 463	Evolution of American Planning	3
URB R PL 601	Site Planning	3

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Graduates will gather, process and analyze market, linkage and macroeconomic data for the purpose of forecasting real estate trends and making prudent investment decisions.
2. Graduates will understand how to optimally source capital to execute on growth and development opportunities, prepare for and manage the crises and contingencies that pervade real estate ventures, and improve efficiencies in the operation of revenue generating properties.
3. Graduates will be able to recognize, measure, and create value in real estate in the strict respect of all ethical and legal norms and with full awareness of their responsibility to the communities, investors and users they aspire to serve as real estate professionals.



4. Graduates will be able to successfully communicate the merits of beneficial real estate projects to its various stakeholders.
5. Graduates will develop a deeper network with local, regional and international professionals to gather market data, perspectives, investment ideas and employment leads.

## ADVISING AND CAREERS

### ADVISING

#### MEET THE ACADEMIC AND CAREER ADVISORS FOR REAL ESTATE.

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Please visit the advising page ([http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/~/link.aspx?\\_id=2471B6AB7883436D8817C4E66E0AF1C2&\\_z=z](http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/~/link.aspx?_id=2471B6AB7883436D8817C4E66E0AF1C2&_z=z)) for information on advising and appointments. Contact [wibbaadvising@bus.wisc.edu](mailto:wibbaadvising@bus.wisc.edu) for questions regarding academic advising.

### CAREERS

Real estate as a career encompasses a wide range of activities—from development and construction to financing; from brokerage and leasing to property management; from appraisal and assessment to insurance and regulation; from research to urban planning, government affairs and more. Job responsibilities vary by function and can be office-based or in the field. Qualifications also vary from licensing and certification to advanced degrees.

Please visit our website (<http://bus.wisc.edu/bba/mybiz/academics/curriculum-degree-requirements/majors-specializations-certificates/real-estate>) to learn more about careers in real estate.

## PEOPLE

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## SCHOOL OF EDUCATION

The School of Education at UW–Madison is consistently ranked as one of the finest schools of education in the United States, and among the best in the world. The school embraces fields of study that define the human experience: **education** to challenge minds, **health** to improve lives, and the **arts** to enhance creative spirits, and also conducts world-class research to drive conversation forward. The school prepares students in a variety of disciplines and for a range of professional roles, including artist, teacher, and therapist.

Approximately 1,500 undergraduates are enrolled each year in the School of Education. While many students are pursuing teacher certification, a significant number are completing programs in the performing and visual arts, human movement, and human services.

The School of Education offers a broad array of undergraduate programs that reflect the wide range of disciplines housed in the school. Although undergraduate majors are not offered in all departments, all ten departments do offer courses to undergraduate students. The school's departments include: Art (p. 1250), Counseling Psychology (<http://counselingpsych.education.wisc.edu>), Curriculum and Instruction (p. 1279), Dance (p. 1432), Educational Leadership and Policy Analysis (<http://elpa.education.wisc.edu>), Educational Policy Studies (p. 1450), Educational Psychology (p. 1455), Kinesiology (p. 1457), Rehabilitation Psychology and Special Education (p. 1484), and Theatre and Drama (p. 1502).

Most School of Education students, including those interested in teacher education, begin their academic careers with a "pre-professional" designation. Application to the professional component of the undergraduate program is made as prerequisite coursework is completed. Students admitted to the university as art, education studies, or theatre and drama majors enter directly into their professional program. Dance majors are admitted based on an audition.

Many programs within the school are selective and competitive. School of Education faculty seek committed, creative, and reflective students who are sensitive to differing perspectives. For this reason, most of the school's limited-enrollment programs use criteria beyond grade point average to determine professional program admission. For this reason, too, the school consistently encourages students to challenge themselves and their initial career choices through volunteer experiences, service learning courses, internships or paid work experiences, and study abroad.

Students find that the School of Education is their academic and administrative home—a source of advising, guidance, support, and community. Small class sizes in many pre-professional and professional courses allow students to develop a strong sense of community and to get ample individual attention from professors, instructors, and teaching assistants. Teaching staff are extremely willing to get to know their students and work with them to meet their goals. School of Education courses also provide students the chance to get to know their classmates well. The School of Education works to offer a caring, secure, and supportive environment that encourages taking risks, expanding personal boundaries, and developing into a professional.

## DEGREES/MAJORS/CERTIFICATES

All students pursuing their undergraduate degree in the School of Education **must** fulfill the following requirements:

- Universitywide General Education Requirements (p. 17)
- School of Education Liberal Studies Requirements (p. 1234)
- Major/Degree Program Requirements (see below)
- Art Education, B.S. (p. 1250)
- Art, B.S. (p. 1261)
- Art, BFA (p. 1267)
- Athletic Training, B.S. (p. 1457)
- Chinese, BSE (p. 1283)
- Communication Sciences and Disorders, BSE (p. 1295)
- Dance, B.S. (p. 1433)
- Dance, BFA (p. 1438)
- Dance, Certificate (p. 1444)
- Education Studies, B.S. (p. 1450)
- Education and Educational Services, Certificate (p. 1455)
- Educational Policy Studies, Certificate (p. 1454)
- Elementary Education, BSE (p. 1302)
- French, BSE (p. 1321)
- German, BSE (p. 1336)
- Individual Major, BSE (p. 1446)
- Introductory Studies in Dance/Movement Therapy, Certificate (p. 1445)
- Italian, BSE (p. 1354)
- Japanese, BSE (p. 1367)
- Kinesiology, B.S. (p. 1466)
- Latin, BSE (p. 1379)
- Physical Education, B.S. (p. 1472)
- Pilates, Certificate (p. 1445)
- Portuguese, BSE (p. 1397)
- Rehabilitation Psychology, B.S. (p. 1484)
- Spanish, BSE (p. 1419)
- Special Education, BSE (p. 1490)
- Studio Art, Certificate (p. 1277)
- Theatre and Drama, B.S. (p. 1502)

**Note:** Students at UW–Madison become certified to teach middle and high school **English, Mathematics, Science and Social Studies** subjects only through graduate-level coursework, not as undergraduates. Information about the master's degree program is available at [uwteach.org](http://www.uwteach.org) (<http://www.uwteach.org>) and on the Curriculum and Instruction website (<https://ci.education.wisc.edu/ci/academics/degree-options-certification-programs/wisconsin-masters-in-teaching>). Science certification areas include Biology, Chemistry, Earth and Space Science, Environmental Studies, Physics, and Broad Field Science. UW–Madison offers certification in the Social Studies areas of Economics, Geography, History, Political Science, Psychology, Sociology and Broad Field Social Studies.

## POLICIES AND REGULATIONS

### ACADEMIC CONCERNS AND STATUS

#### ACADEMIC ACTIONS AND EXCEPTIONS

Academic actions and exceptions are used to record a student's progress through the university and to document various administrative and academic situations. Actions can be grouped into two broad categories:

- those that permit exceptions to program requirements and school/university policies *and*
- those that affect a student's standing in the university —e.g., probation or transferring from one program to another.

As the undergraduate dean's office, Education Academic Services (EAS) is responsible for reviewing, approving, documenting, and sometimes initiating academic actions and exceptions. To be posted to a student's record, exceptions must go through several steps. Exceptions may be initiated either by program faculty/staff or by EAS staff. EAS staff and faculty/staff often consult about a specific exception. Once an exception has been approved, it is processed either as an official "Dean's action" or as a DARS exception. Students can find a record of dean's actions on their printed unofficial transcript (also called the student record) or on their DARS report. A DARS exception will be reflected in the individual student's DARS report.

Exceptions to faculty approved program requirements generally include course substitutions and rarely involve course or program requirement waivers. Exceptions to campus or School policies include permission for adding or dropping a course beyond the deadlines, waiving senior or major residency requirements, extending the deadline for meeting a deficiency or finishing an Incomplete, and permitting students to repeat a course for credit. A request for an exception requires careful consideration from all parties involved. Students should be prepared to explain the reasoning behind a request and offer supporting documentation.

Substantial consultation time with faculty, staff, and/or deans may be required, so students should not expect to receive an immediate answer to a request during the initial appointment.

#### ACADEMIC STANDING: DEAN'S LIST, ACADEMIC PROBATION, ETC.

To remain in good academic standing in the School of Education, students must earn both a semester grade point average (GPA) and a cumulative grade point average of at least 2.5. While the 2.5 grade point average may not be sufficient to permit students to be considered for admission to their program of choice, it is the minimum required to remain in the School of Education. This may be substantially higher than minimum grade point average requirements in other schools/colleges on campus.

##### Dean's List

Students have at least a 2.5 cumulative GPA and 3.5 or higher for the semester. Students must have received no incompletes in graded courses, no unreported grades, or end-of-semester academic

actions for the semester. Credit/no credit and pass/fail courses are not considered in meeting the requirements for the Dean's List.

##### Probation

A student's grade point average for a particular semester falls below 2.5, while the cumulative campus GPA remains at or above 2.5. Students must earn a minimum 2.5 grade point average on the next semester's coursework to be removed from probation status.

##### Strict Probation

Strict Probation occurs when either (1) a student's cumulative GPA falls below a 2.5 OR (2) a student already on probation earns less than a 2.5 grade point average for the subsequent semester. To be in good standing, students on strict probation must earn both a 2.5 GPA on the next semester's coursework and also have a cumulative GPA of 2.5 by the end of the next semester. Students on Strict Probation status have an enrollment hold placed on their record for the subsequent semester. These students are not permitted to enroll until they have met with an EAS advisor.

##### Continued Strict Probation

A student already on strict probation obtained a 2.5 GPA or above on the next semester's coursework, but the cumulative GPA is still below 2.5. Once both grade point averages are at or above 2.5, the student will be in good academic standing. Students on Continued Strict Probation status have an enrollment hold placed on their record for the subsequent semester. These students are not permitted to enroll until they have met with an EAS advisor.

##### May Not Continue in the School of Education

Students on strict probation or continued strict probation who earn less than a 2.5 GPA on the next semester's work will receive notice that they may not continue in the School of Education. Students on May Not Continue status who do not seek or are not granted permission to continue may be withdrawn from the university and dropped from courses ("disenrolled"). Students are expected to contact EAS immediately to discuss options, including transfer to another school or college on campus, transfer to another university, or withdrawal from UW-Madison.

#### CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW-Madison campus coursework. A student whose GPA falls below 2.75 will be placed on probation for the following semester. If the GPA remains below a 2.75 at the end of the probationary semester, the student will receive a discontinuation letter indicating that they must transfer out of the Department of Kinesiology. A hold will be placed on the student's registration for the second semester following the probationary semester, until the transfer is complete. Students in this situation must transfer to another School of Education program, another UW-Madison school/college, to another institution altogether, or must withdraw from the university.

If a student wishes to appeal being discontinued in the department, it must be done in writing to the Chair of the Undergraduate Studies Committee within 30 days of the date of the notification letter. The Undergraduate Studies Committee may request that the student

appear in person at an Undergraduate Studies Committee meeting to present the case.

If a negative decision is reached by the Undergraduate Studies Committee, a student may choose to appeal in writing to the Department of Kinesiology Student Affairs Committee within 30 days of the date of the notification.

If a negative decision is reached by the Department's Student Affairs Committee, a student may choose to appeal in writing to the Chair of the Department of Kinesiology within 30 days of the date of the notification.

If a negative decision is reached by the Chair of the Department of Kinesiology, a student may choose to follow the School of Education Grievance Policy.

In the event of a positive decision at any level, the student will be allowed to continue for one semester in order to raise the GPA to 2.75 or higher. A 2.75 cumulative GPA is required to graduate from the Department of Kinesiology.

## **GRIEVANCE POLICY IN THE SCHOOL OF EDUCATION**

Any student who feels that he or she has been treated unfairly by a faculty or staff member has the right to complain about the treatment and to receive a prompt hearing of the grievance, following these grievance procedures. The complaint may concern course grades, classroom treatment, program admission, or other issues. To insure a prompt and fair hearing of any complaint, and to protect both the rights of the student and the person at whom the complaint is addressed, the procedures below are used in the School of Education.

The person whom the complaint is directed against must be an employee of the School of Education. Any student or potential student may use these procedures unless the complaint is covered by other campus rules or contracts. The following steps are available within the School of Education when a student has a grievance:

1. The student should first talk with the person against whom the grievance is directed. Most issues can be settled at this level. If the complaint is directed against a teaching assistant, and the student is not satisfied, the next step would be to talk to the TA's supervisor, who is usually the course professor. If the complaint is not resolved satisfactorily, the student may continue to step 2.
2. If the complaint does not involve an academic department, the procedure outlined in Step 4 below should be followed. If the complaint involves an academic department, the student should contact the chair of the department. The chair will attempt to resolve the problem informally. If this cannot be done to the student's satisfaction, the student may submit the grievance to the chair in writing. This must be done within 60 calendar days of the alleged unfair treatment.
3. On receipt of a written complaint, the chair will refer the matter to a departmental committee, which will obtain a written response from the person at whom the complaint is directed. This response shall be shared with the person filing the grievance. The chair will provide a timely written decision to the student on the action taken by the committee.
4. If either party is not satisfied with the decision of the department, he or she has five working days from receipt of the decision to contact the dean's office (at the number below), indicating the intention to appeal. If the complaint does not involve an academic department in the school, the student must contact the dean's office within 60 calendar days of the alleged unfair treatment.
5. In either case, there will be an attempt to resolve the issue informally by the associate dean. If this cannot be done, the complaint can be filed in writing with the dean's office. This must be done within 10 working days of the time the appealing party was notified that informal resolution was unsuccessful.
6. On receipt of such a written complaint, the associate dean will convene a subcommittee of the school's Equity & Diversity Committee. This subcommittee may ask for additional information from the parties involved and may hold a hearing at which both parties will be asked to speak separately. The subcommittee will then make a written recommendation to the dean of the School of Education who will render a decision. Unless a longer time is negotiated, this written decision shall be made within 20 working days from the date when the grievance was filed with the dean's office.

Questions about these procedures can be directed to the School of Education Dean's Office, 377 Education Building, 1000 Bascom Mall, 608-262-1763.

State law contains additional provisions regarding discrimination and harassment. Wisconsin Statutes 36.12 reads, in part: "No student may be denied admission to, participation in or the benefits of, or be discriminated against in any service, program, course or facility of the system or its institutions or center because of the student's race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status or parental status." In addition, UW–System prohibits discrimination based on gender identity or gender expression. Students have the right to file discrimination and harassment complaints with the Office for Equity and Diversity, 179A Bascom Hall, 608-263-2378, [kate.oconnor@wisc.edu](mailto:kate.oconnor@wisc.edu), ([kate.oconnor@wisc.edu](mailto:kate.oconnor@wisc.edu)) relay calls accepted.

## **PART-TIME ENROLLMENT STATUS**

Students who choose part-time enrollment status or who anticipate falling below full-time enrollment status due to dropping a course should consult with an EAS advisor. Part-time enrollment may have important implications for any number of issues, including health insurance coverage or financial aid. It is especially important that athletes and international students consult with EAS and other advisors if considering part-time enrollment. Students who drop below 12 credits need not leave university housing.

## **RE-ENTRY TO CAMPUS AFTER AN ABSENCE**

Students wishing to reenter UW–Madison after an absence of a semester or more must file a reentry application form. This form is available from the UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>). If an applicant is not in good academic standing, the reentry application will be referred to the associate dean.

Students admitted to the professional part of a program may leave UW–Madison for a maximum of two consecutive semesters (excluding summer sessions) and be eligible to reenter directly into the program. Students in this situation are not guaranteed immediate placement in a practicum or student teaching placement upon reentry, and graduation may be delayed because of prior commitments to continuing students. Students who leave the program for more than two consecutive semesters (excluding summer sessions) may be considered for readmission only on an individual basis. Lack of space in a program may preclude readmission directly into a program for any future semester. Given the individual circumstances, a student may be required to reapply to the program altogether.

The general policy above may be modified by any particular program so that the conditions of reentry match the structure of the professional program. Some programs require that students obtain prior approval to interrupt the program sequence. All students intending to be absent should leave with a firm understanding of the conditions guiding their reentry into their professional program. Consult with the appropriate faculty advisor and with Education Academic Services.

## RESIDENCY (MAJOR & SENIOR) REQUIREMENTS

### Major Residency

Students must complete at UW–Madison at least 15 credits in upper-level courses in the major. Some programs, e.g., Art, require more credits to meet major residency requirements. Upper-level courses are generally defined as those numbered 300 and above, but this varies by program area. Retroactive credits and credits granted by examination do not count toward the residency requirement.

### Senior Residency

Seniors in the School of Education must complete the last 30 credits in residence. Special permission to take a portion of senior work either at another institution or by correspondence (via UW–Extension) must be obtained in advance from Education Academic Services. Coursework taken as part of a UW–Madison sponsored study abroad program does not count against senior residency. Students should discuss senior residency issues with their EAS advisor. Retroactive credits and credits granted by examination do not count toward the residency requirement.

## EXCESS CREDIT AND SATISFACTORY PROGRESS

### Excess Credits

Wisconsin resident undergraduates who have accumulated more than 165 completed credits will be assessed a 100% tuition surcharge on credits over 165, as required by the UW System Board of Regents. This policy was effective beginning Fall 2004. See *Excess Cumulative Credits* ([http://registrar.wisc.edu/excess\\_cumulative\\_credits.htm](http://registrar.wisc.edu/excess_cumulative_credits.htm)) on the registrar's website for more information about this policy and the criteria used in counting cumulative, completed credits. Note: Students who have already been awarded a Bachelor's degree from any accredited institution are exempt from the tuition surcharge. Special students are also exempt.

### Satisfactory Progress: Second degree candidates and Education Special (non-degree-seeking) Students

The School of Education is enriched by admitting students with a previous degree to our programs. We welcome these students

and encourage them to apply to our the School. At the same time, admission as a second-degree or Education Special (designated EDS or EDCS) student is a privilege granted by the School of Education. Second-degree and Education Special students are expected to make the same timely progress toward program completion as are initial-degree students.

To ensure satisfactory progress, second-degree and Education Special students who are identified to have met any one of the criteria below will be required to confer with her/his program coordinator and the undergraduate academic dean for purposes of developing a formal plan for program completion:

- Student has earned over 200 total credits.
- Student enrolled for two consecutive semesters without completing requirements for the professional program to which the student was initially admitted.
- Student withdrew from classes for two consecutive semesters.
- Student failed to enroll in a required course when it was available, particularly those that are intermittently offered.
- Student engages in other course selection patterns that result in his/her failing to make progress toward completion of initial program.

Students who do not meet the terms of the plan for program completion may be restricted to enrollment in specific courses or departments, prevented from enrolling entirely, or withdrawn from classes by the academic undergraduate dean after consultation with program faculty. Students may appeal the terms of the plan or any of the dean's actions above under the provisions of the School of Education Grievance Policy.

## WITHDRAWING FROM UW–MADISON

Formal withdrawal procedures must be observed by individuals who wish to leave the university before completing the semester in progress. Students who leave the university without formally withdrawing may receive failing grades in all courses.

## COURSES AND COURSE ENROLLMENT

### ATTENDANCE POLICIES

Faculty and instructors may require students to attend scheduled meetings of a class and/or to participate in other course-related activities, including distance activities. Students are responsible for materials presented in such meetings or activities. Because courses are designed and conducted in diverse ways, faculty and instructors are expected to inform students in writing at the beginning of each course if there are specific expectations for attendance/participation, including whether any component of the grade is based on such attendance/participation.

### AUDITING A COURSE

A student may audit a course only if the instructor consents and if no laboratory or performance skills are required. (The second restriction usually prevents students from auditing Dance or Art courses.) Auditors do not participate in classroom discussions or take examinations, but are expected to attend with reasonable regularity and do some assigned work.

Audited courses carry no degree credits, are not graded, do not count in determining full-time/part-time load for enrollment

certification in an academic term, and do not meet degree requirements for School of Education students. Students interested in auditing a course should confer with their EAS advisor. The deadline to change a course from credit to audit is the end of the fourth week of classes; no exceptions to this deadline are permitted.

## CONCURRENT ENROLLMENT AT TWO INSTITUTIONS

School of Education students may occasionally choose to take courses at another institution—e.g., Madison College or Independent Learning through UW–Extension—while being a fully enrolled student on the UW–Madison campus. This is generally permitted, but does require a specific dean’s action. Full-time or part-time student status is usually determined by the credits taken at UW–Madison only; thus, students who take only nine credits on campus and three credits at another institution may not be considered full-time students.

## CREDIT OVERLOAD PERMISSION

The School of Education allows students to carry a maximum of 18 credits per semester without special permission. School of Education undergraduates may, with an academic dean’s permission, enroll for more than 18 credits in a semester. Students must confer with a School of Education academic dean about such a request. Students must be in excellent academic standing to be considered for a credit overload and will be liable for the additional tuition costs beyond 18 credits.

During summer sessions, students may, as a rule, carry one credit per week of instruction. The maximum credit load for Education students for the entire summer session is 12. Session-specific limits follow the rule of 1 credit per week of instruction, except 9 credits are allowed in the Eight-Week General Session. Students must obtain permission from an academic dean to carry an overload in any of the summer sessions.

## DIRECTED/INDEPENDENT STUDY

Directed Study, also called Independent Study, offers the student an opportunity to work with a School of Education faculty member on an individual topic of interest. Most School of Education departments make directed study courses available to students on the basis of the student’s preparation and motivation and a faculty member’s willingness to accept the student in such an endeavor. Directed Study courses are generally numbered 199, 299, 399, and 699.

This study option is intended primarily for advanced students who have a depth of knowledge in a field, the self-discipline necessary for independent work, and strong motivation to pursue a special project. Some program areas limit the number of Directed Study credits that can be applied to major or minor requirements.

Directed Study is taken as a supplement to, but not as a replacement for, available course offerings. In this way, it may be used to expand areas of particularly strong interest. Extra responsibility is required from the faculty member involved, and no member of the faculty is obligated to accept a proposal for a directed study project. Students should have a well-defined outline of the topic to be studied before discussing the project with a faculty member.

Both the student and instructor must follow UW–Madison’s Policy on Directed/Independent Study for Undergraduates (<https://kb.wisc.edu/page.php?id=36263>). Important components of this document include, but are not limited to:

- The student’s responsibility to develop a written study plan, in collaboration and agreement with the instructor, consistent with the responsibilities of the instructor. The study plan will include expectations for learning and student work, the time and place for regular meetings, the number of credits to be earned, and any other issues related to the learning experience.
- Guidelines for assigning the appropriate number of credits to the Directed Study.
- Responsibilities of the Directed Study instructor.
- The approval process for enrolling in a Directed Study after the course add deadline (usually the end of the second week of class in fall and spring semesters).

## INDEPENDENT LEARNING COURSE ENROLLMENT

Students occasionally elect to take an Independent Learning (<http://continuingstudies.wisc.edu/lsa/indlearn>) course through the University of Wisconsin–Extension. Many of the courses offered through Independent Learning (IL) can count toward specific degree requirements and students have an entire year to complete the coursework. Individuals interested in enrolling in an Independent Learning course should note the following important issues:

### Course Equivalencies

Independent Learning courses are not automatically transferable as equivalent UW–Madison campus courses—even when the Independent Learning course carries the same number and title. Use the Transfer Information System (TIS) (<http://www.uwsa.edu/tis>) to ensure that the Independent Learning course is equivalent to the campus required course. Faculty and dean’s offices may have some discretion in permitting courses to count for requirements even when they are not coded as exactly equivalent; students should see their EAS advisor.

### Concurrent Enrollment

UW–Extension is an entirely separate institution from UW–Madison. Thus, UW–Madison students must have permission from their academic dean to be enrolled concurrently in another higher education institution. Permission for concurrent enrollment is granted routinely for School of Education students through EAS. Students should go to the registrar’s office website for the permission form ([https://registrar.wisc.edu/documents/independent\\_learning\\_form.pdf](https://registrar.wisc.edu/documents/independent_learning_form.pdf)). The completed form indicates permission for concurrent enrollment and, in some circumstances, provides for a waiver of the tuition for the Independent Learning course (see additional information below). Students should take this form to Education Academic Services, 139 Education Building, 1000 Bascom Mall, and meet with an advisor. Send it to Independent Learning after it has been approved at EAS.

### Tuition Waiver

The tuition for an Independent Learning course may be waived with the academic dean’s permission, although the student is still responsible for other course enrollment fees. Students are eligible for a tuition waiver if they register for an Independent Learning course during the semester they are concurrently enrolled at UW–Madison. In some cases, students may be allowed to register for

Independent Learning classes once they have enrolled in courses for the subsequent semester, linking their Independent Learning registration with the credits for the succeeding semester. Students interested in receiving a tuition waiver must be enrolled full time (at least 12 credits) at UW–Madison, and have no more than 18 credits after adding the Independent Learning course. Students should see their EAS advisor for additional information on these policies. As indicated above, download and complete the form ([https://registrar.wisc.edu/documents/independent\\_learning\\_form.pdf](https://registrar.wisc.edu/documents/independent_learning_form.pdf)) and submit to EAS, 139 Education Building, 1000 Bascom Mall. This stamped form must then be sent to Independent Learning, with a copy remaining at EAS.

### **Posting Independent Learning courses to the UW–Madison transcript**

Independent Learning courses are posted to the campus transcript by staff at the Office of Admissions and Recruitment (<http://admissions.wisc.edu>). A official transcript for an Independent Learning course must be submitted to this office.

### **Timing for course completion and degree posting**

Independent Learning courses require a substantial time commitment. Students should not plan to begin an Independent Learning course only a few weeks before it must be completed! Perhaps even more important, students completing an Independent Learning course to meet degree requirements during their last semester on campus should be aware that the Independent Learning course must be completed prior to the University's official graduation date for that semester. The completion date listed on the UW–Extension transcript must be on or before the UW–Madison degree completion date or the student's degree will be awarded after the subsequent semester. For example, if a student's UW–Extension transcript indicates a course completion date of May 25, but the UW–Madison degree completion date is May 23, the student's degree will be posted for the subsequent August graduation date, not for the May graduation day. This could create serious problems for teacher education students hoping to secure a position. For this reason, students completing final degree requirements via Independent Learning should consult carefully with EAS and Independent Learning staff regarding the timing of their course completion and degree posting.

### **LATE COURSE ADDS OR DROPS**

Course enrollment regulations must be followed when adding and dropping courses. Students are responsible for knowing and complying with the published deadlines; see the registrar's website (<http://www.registrar.wisc.edu>) for deadlines. Students are expected to check their academic records routinely to minimize the need for late drops based on enrollment errors.

#### **Late Course Add**

Students must obtain instructor, departmental, and dean's approval to add a course after the course add deadline. See the registrar's website (<http://www.registrar.wisc.edu>) for instructions.

#### **Late Course Drop**

After the drop deadline, courses may be dropped only with the permission of Education Academic Services. Such permission is not granted routinely, but only in unusual circumstances. Students seeking a late drop will be required to complete a formal request form and may be asked to supply a written justification, medical or other documentation, and/or proof of having consulted with the course instructor. Requests for backdated drops due to ignorance

of campus drop deadlines or to remove a "DR" from the student's record will not be honored. Students seeking a late drop must schedule a meeting with an EAS advisor.

The student will meet with the advisor to discuss the drop request. The advisor will collect information about the circumstances around the request. If appropriate, the advisor will warn about the drop's possible consequences for financial aid, insurance coverage, student status (for international students), etc. The decision around the late drop may or may not be made during this meeting. Advisors may confer with instructors as needed to verify students' reports and obtain additional information. Advisors may also require students to contact the instructor and may also consult with one another and with the associate dean about specific cases. Students will be informed via email or telephone about the disposition of their request.

### **REPEATING COURSES**

Most courses on the UW–Madison campus may be taken only once for purposes of credit. Some courses may be repeated a limited number of times for credit. Other courses may be repeated an unlimited number of times for credit. When courses are taken more than once, all grades and their associated grade points are included in the cumulative campus grade point average.

Some School of Education professional programs may permit students to retake courses for admission eligibility purposes only. Students should consult EAS staff with questions regarding repeated courses.

## **DEGREES, "DOUBLE MAJORS," AND GRADUATION**

### **ADDITIONAL MAJOR OR "DOUBLE MAJOR"**

School of Education students may be permitted to complete an additional major with their School of Education degree program. Students must be admitted to the professional part of their degree program to be eligible to add an additional major; pre-professional students cannot add another major.

Education students wishing to complete an additional major in the College of Letters & Science must complete these steps:

1. Contact the department that houses the major of interest. Meet with the undergraduate major advisor there, if appropriate. Complete the Major Declaration form and obtain departmental approval (usually a signature or stamp).
2. Take the form to Education Academic Services, 139 Education Building, 1000 Bascom Mall, and ask for a dean's action to permit the additional major. Staff at EAS will take the action and send the form to the registrar's office. Note: Students in the School of Education should not take the form to the L&S Student Academic Affairs office—even if this is the advice of departmental staff. Requests for an additional major will be rejected by the registrar's office for lack of the appropriate dean's approval.

Students will be granted a degree at the end of the fall, spring, or summer semesters in which all School of Education degree requirements are complete. Graduation will **not** be postponed if

students have an unfinished additional major or certificate program that is not required for the degree.

Exceptions to the requirements of an additional major or certificate program must be approved by the department and school/college dean's office in which the major or certificate program is located.

## CREDITS-TO-DEGREE

School of Education programs require a minimum of 120 credits in all programs for graduation, although programs may require more. To earn 120 credits in four years (eight semesters), students must average 15 credits per semester. The number of credits carried each semester may depend upon a student's preparation, motivation, course selection, employment, and extracurricular activities.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## DUAL DEGREES

Students may be permitted to complete two degrees simultaneously. For example, students may complete two degree programs in the School of Education or may choose a degree program in the College of Agricultural and Life Sciences along with their School of Education degree. Not all schools/colleges permit dual degrees—e.g., this is not permitted by the College of Letters & Science or by the College of Engineering. Students should confer with an academic dean regarding the ability and feasibility of completing two degrees programs simultaneously. Students wishing to earn two undergraduate degrees must follow these academic policies:

- If the two degrees to be earned are within the School of Education, at least 30 additional credits and all course and grade point average requirements for the second degree must be completed for the second degree. When the first degree requires 120 credits, a minimum of 150 credits for most majors will be required. The two degree programs must differ sufficiently to permit the total credits to be accumulated. Courses may count toward the fulfillment

of both degree programs. Permission to complete two degrees simultaneously requires the academic dean's approval. This approval, and the formal academic action permitting the dual degree work, should be sought as early as possible to ensure that it is feasible to complete both degrees.

- If the two degrees to be earned are from two different schools/colleges (one degree in Education and one degree in another school or college on this campus), the following academic policies shall be followed:

1. Permission to complete two degrees simultaneously requires academic dean's approval from both schools/colleges. Students should see their current dean's office for the required paperwork.
2. Admission into the other school/college shall be based on the admission criteria for that particular school/college and, when necessary, particular program.
3. The two degree programs must differ sufficiently so that the combined total requirements for the two degrees are at least 150 credits.
4. The student's program must be reviewed and approved in both colleges before the start of a student's senior year in residence.
5. The degree from each college will be awarded simultaneously.
6. Exceptions to degree requirements must be taken by staff from the school/college linked to the particular degree.

## GRADES AND GRADING

### Grading System

See Enrollment and Records (p. 20) for detailed information on the campus grading system, including the list of possible grades and their impact on a student's grade point average.

### Credit/No Credit Courses

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

### "F" Grade Policies

If the course is repeated, the original F will remain on the transcript and will be included in computing the GPA. If a grade of F, N (no credit), or U (unsatisfactory) is received in student teaching or in courses within required practica, the course may be repeated only if the faculty adviser, the supervisor of the practicum or student teaching, and the appropriate associate dean gives approval. A third attempt to register in a course under these conditions is not allowed.

### Incompletes

A grade of "Incomplete" may be reported for a student who has carried a subject with passing grades until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond the student's control, has been unable to take or complete the final examination, or to complete some limited amount of term work. An



Incomplete is not given to a student who stays away from a final examination except as indicated above. In the absence of substantiated cause, the grade shall be F. Even with such proof, if the student's work has convinced the instructor that s/he cannot pass the course, the grade shall be F.

Any Incomplete taken by School of Education students must be completed by the end of the student's next semester of residence (specifically, by the last day of classes), excluding Summer Sessions. If the work is not completed by this deadline, the Incomplete will lapse into a Failure unless the time limit has been extended in writing by the dean's office. (Note that this differs for College of Letters & Science students: Incompletes must be completed by the end of the fourth week of classes of the student's next semester of residence at UW-Madison, excluding Summer Sessions.)

### Pass/Fail Grading

All undergraduate students are eligible to take a course on a pass/fail basis if they request the option prior to the deadline and are in good academic standing at the time of the request. Good academic standing for this purpose means that students have a minimum 2.5 cumulative grade-point average based on UW-Madison coursework. Undergraduates may carry one course on a pass/fail basis per term. (Each year's summer sessions collectively count as a single term.)

Pass/fail can be chosen only for elective courses. Required courses cannot be taken on a pass/fail basis. The School of Education may reject pass/fail requests for non-elective work, but it is the student's responsibility to be sure that the requested course is an elective. Courses taken on a pass/fail basis will not count for non-elective requirements—even if they would normally count toward such requirements.

Students may submit pass/fail requests via their Student Center link from the time that they register until midnight on the Friday at the end of the fourth week of fall and spring semesters. For modular and summer session courses, pass/fail requests must be submitted by midnight Friday of the week in which the session is one-fourth completed. Students may not cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms.

Instructors are not notified when a student elects the pass/fail option. (Students can see whether a course is pass/fail in their Student Center.) When a course is taken on a pass/fail basis, the instructor reports a letter grade, which is converted by the registrar to an S (satisfactory) or U (unsatisfactory). The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U shall be recorded by the registrar in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade-point average. A student must earn at least a C to receive credit for the course.

Please note that courses completed on a pass/fail basis do not apply toward Liberal Studies, major, minor, or professional education requirements for graduation. Students planning graduate study should not take courses on a pass/fail basis if these are pre-professional requirements for admission to graduate and/or professional programs. Individuals who are undecided about a major should avoid taking a course on a

pass/fail basis that might later become a required course needed to complete a major. Students may wish to consult with an advisor before taking a course on a pass/fail basis.

### Six-Weeks (Midterm) Grades

Only first-year students receive midterm, or "six-weeks" grades. Midterm grades for first-year students are prepared at the end of the sixth week of classes and are made available to students in their Student Center in My UW on Monday of the eighth week. An email is sent out to all students with six-week grades informing them of their availability in the Student Center.

The midterm grade report provides students with important feedback about course enrollment and performance before the course drop deadline. Students should check their six-week grade report to make sure all courses are listed and grades indicated. An "NW" means that "No Work" has been turned in; students who have been attending the course should contact the instructor immediately. In the case of a course registration problem, students should see their EAS advisor immediately.

### Grades from Transfer Courses

Grades from transfer courses are not posted to the UW-Madison transcript; however, the School of Education uses all attempted transferable coursework to determine program admission eligibility and selection grade point average. Students should be aware that grades earned at another institution will be included in admission calculations. (Courses for which an "F" is earned do not transfer to UW-Madison.) Student should see their School of Education advisor if they have additional questions about this policy.

## PROGRAM ADMISSIONS

### LAST 60 CREDIT RULE

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

1. all transferable college level coursework attempted, *and*
2. the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.)

The use of the last 60 credits does not supersede other eligibility requirements. For example, when a minimum GPA on prerequisite courses is required, or a minimum major GPA is required to be eligible for admission, all required courses will be used in calculating this GPA. This will include courses taken prior to the last 60 credits. A cumulative GPA, however, will still be calculated based on the last 60 college credits attempted.

Currently, retention and graduation GPAs are based on all credits attempted at UW-Madison as an undergraduate student. If each semester's GPA after admission to the program meets the required GPA for retention, the student will be allowed to continue and complete the program.

*This policy does not apply to certification programs in Music Education, as the degree is granted from the College of Letters and Science, not the School of Education.*

Contact EAS for additional information regarding the interpretation of this policy.

## STUDENTS WITH A PREVIOUS DEGREE

A prospective student who already holds an undergraduate degree is admitted to the School of Education as either an Education Special student or a Second Degree student, depending on the academic area of interest and the individual's previous coursework. The term "Special Student" indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; the student does not receive a second degree for this "certification only" coursework. Second undergraduate degree students are seeking a second degree from the School of Education in an area that is different from the major coursework of the first degree. This degree may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission.

### Special Students

Applicants must file an undergraduate application with the Office of Admissions and Recruitment (<http://admissions.wisc.edu>). Education Special students not yet admitted to a professional program are given an EDS classification, are not eligible for financial aid, and enroll last with the other special students on campus. Candidates seeking Special student status in open enrollment programs must obtain written permission for admission from the relevant program coordinator and must submit a professional program application to Education Academic Services. Candidates seeking admission to a limited enrollment program must meet all admission eligibility requirements for the program and must compete with other eligible candidates for program admission. Applicants admitted to a certification professional program become Education Certification Special students (EDCS classification) to distinguish them from Special students not so admitted. Students with an EDCS classification may be eligible for financial aid. Continuing EDCS students may register with undergraduates having junior status.

### Second Degree Candidates

Students who wish to earn a second baccalaureate degree in the School of Education must file an undergraduate application with the Office of Admissions and Recruitment (<http://admissions.wisc.edu>) and must file a professional program application with Education Academic Services. Second degree students not yet admitted to a professional program are given a pre-professional classification. Second degree candidates must:

- be seeking a new major that is substantially different from their previous degree work;
- complete at least 15 upper-level credits in the new major;
- complete at least 30 credits beyond their previous coursework.

The determination of whether a student should be admitted as a second degree candidate or Education Special student is made by the faculty advisor in consultation with EAS staff after analyzing the student's remaining requirements. The faculty advisor

will determine the specific remaining requirements for students admitted to a program. In addition to completing the requirements specific to the program(s) of interest, returning students must also complete any relevant campus-wide requirements, complete the requirements specific to individual program areas such as the Environmental Education requirement, and satisfy any high school deficiencies identified at the time of admission to UW–Madison. Students are strongly encouraged to discuss their academic plans with their faculty advisor and must make satisfactory progress toward program completion - see Satisfactory Progress/Excess credits for details.

Students seeing a second degree in Kinesiology–Exercise & Movement Science or Athletic Training must complete PSYCH 202 Introduction to Psychology as part of the professional program if an equivalent course was not completed during the initial baccalaureate degree.

## REQUIREMENTS

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

#### HOW STUDENTS MEET REQUIREMENTS

The School of Education's Liberal Studies Requirements automatically satisfy most of the University's General Education Requirements, including Ethnic Studies, Humanities/Literature, Social Studies, and Science. Students pursuing most School of Education degree program may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program.

Beginning at Student Orientation and Registration (SOAR), School of Education academic advisors help each student determine how they can meet General Education Requirements while pursuing a specific degree program, or through exploration of a variety of interests. The General Education and Liberal Studies requirements provide an opportunity to do some academic exploration. If a student cannot complete a General Education requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

Students with a previous undergraduate degree are not required to complete the Liberal Studies coursework.

### LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies coursework. Most Liberal Studies courses are offered by academic departments in the College of Letters & Science. Each course is assigned a number of descriptors that provide information about its content. For example, a breadth designation indicates what kind of course it is—a Science course, a Literature course, etc. Level designations describe how advanced the content of a course is in relation to other courses in the department—Elementary, Intermediate, Advanced, or Intermediate/Advanced level. Course listings in both Course Guide and Schedule of Classes (Class Search) provide breadth and level designations. Click on the course number to obtain this information. Students can also search for courses meeting specific breadth or level

designations using either Course Guide and Schedule of Classes (Class Search).

### UW–Madison breadth designations

Biological Science  
Humanities  
Literature  
Natural Science  
Physical Science  
Social Science  
Social or Natural Science  
Humanities or Natural Science  
Biological or Social Science  
Humanities or Social Science

## HUMANITIES

All students must complete a minimum of 9 credits, to include:

### Literature (minimum of 2 credits)

Any course designated as *Literature*.

### Fine Arts (minimum of 2 credits)

The courses listed below are approved for the Fine Arts requirement. Additional courses can be considered; students may consult with an advisor in Education Academic Services.

Code	Title	Credits
<b>African Languages and Literature</b>		
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
<b>Afro-American Studies</b>		
AFROAMER 154	Hip-Hop and Contemporary American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER/ AFRICAN 220	HipHop, Youth Culture, and Politics in Senegal	3
AFROAMER 225	Introduction to African American Dramatic Literature	3
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER/ MUSIC 308	Black Music (1920-Present): Rhythm Section and Combos	2
AFROAMER/ MUSIC 309	Black Music (1920-Present): Vocalist/Trombone/Misc Instrumental	2
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2

AFROAMER/DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFROAMER 338	The Black Arts Movement	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
AFROAMER/ MUSIC 400	Music Cultures of the World: Africa, Europe, the Americas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3

### American Indian Studies

AMER IND 325	American Indians in Film	3
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### Art

Any course from the Department of Art (<http://guide.wisc.edu/courses/art>)

### Art Education

ART ED/CURRIC 322	Information Design for Visual Learning (Art Education)	3
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### Art History

Any course from the Department of Art History ([http://guide.wisc.edu/courses/art\\_hist](http://guide.wisc.edu/courses/art_hist))

### Communication Arts

COM ARTS 350	Introduction to Film	3
COM ARTS 357	History of the Animated Film	3

### Dance

Any course from the Department of Dance (<http://guide.wisc.edu/courses/dance>)

### Design Studies

DS 120	Design: Fundamentals I	3
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### English

ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3

### Folklore

FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2
FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2

### Gender and Women's Studies

GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women	3
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### German

GERMAN/ JEWISH 267	Yiddish Song and the Jewish Experience	3-4
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### Integrated Liberal Studies

ILS 203	Western Culture: Literature and the Arts I	3
ILS 204	Western Culture: Literature and the Arts II	3-4

### Jewish Studies

JEWISH/ GERMAN 267	Yiddish Song and the Jewish Experience	3-4
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**Literature in Translation**

LITTRANS 207	Slavic Science Fiction through Literature and Film	3
LITTRANS 231	Manga	3
LITTRANS 232	Anime	3
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
LITTRANS 272	French Pop Culture	3
LITTRANS 329	The Vampire in Literature and Film	3
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	3-4

**Music**

Any course from the Department of Music (<http://guide.wisc.edu/courses/music>)

**Music Performance**

Any course from the Department of Music Performance ([http://guide.wisc.edu/courses/mus\\_perf](http://guide.wisc.edu/courses/mus_perf))

**Theatre**

Any course from the Department of Theatre and Drama (<http://guide.wisc.edu/courses/theatre>)

**Humanities Elective(s)**

May include courses designated as *Humanities*, *Literature*, *Humanities or Natural Science*, *Humanities or Social Science*, elementary and intermediate level foreign language, or additional fine arts. May also count COM ARTS 105 Public Speaking, COM ARTS 181 Elements of Speech-Honors Course, and any English (<http://guide.wisc.edu/courses/engl>) department intermediate or advanced level creative writing or composition course toward this requirement (ESL classes and elementary level composition courses are excluded).

**SOCIAL STUDIES (SOCIAL SCIENCE)**

All students must complete a minimum of 9 credits. Select from courses with a breadth designation of *Social Science*, *Social or Natural Science*, *Biological or Social Science*, or as *Humanities or Social Science*.

Teacher education, athletic training, and kinesiology students have unique requirements in this category; see below:

**Teacher Education requirement**

Teacher education students must complete a Local, State, and National Government requirement by enrolling in one of the following courses as part of the 9 credits:

- POLI SCI 104 Introduction to American Politics and Government or
- POLI SCI 205 Introduction to State Government

**Athletic Training and Kinesiology—Exercise and Movement Science**

Athletic Training and Kinesiology—Exercise and Movement Science students must complete PSYCH 201 Introduction to Psychology, PSYCH 202 Introduction to Psychology, or PSYCH 281 Honors Course-Introduction to Psychology as part of the 9 credits.

**SCIENCE**

All students must complete a minimum of 9 credits, including one course designated as a Biological Science course and one designated as a Physical Science course. All students must complete one science course with a laboratory. The lab course can also count toward the Biological or Physical Science requirement if it has the requisite breadth designation.

**Biological Science**

Any course with a breadth designation of *Biological Science*, or as *Biological or Social Science*.

**Physical Science**

Any course with a breadth designation of *Physical Science*.

**Science Elective(s)**

Other courses with a breadth designation of *Biological Science*, *Physical Science*, *Natural Science*, *Social or Natural Science*, *Humanities or Natural Science*, or as *Biological or Social Science*.

**Laboratory requirement**

Most sciences with lab sections are identified as such in Class Search and Course Guide. An AP Biology score of 4 or 5 will also fulfill the Laboratory requirement.

In addition to courses with lab sections, the following courses include some lab experience and will meet the lab requirements for students in the School of Education:

Code	Title	Credits
<b>Course options within the College of Letters &amp; Science</b>		
ANTHRO 105	Principles of Biological Anthropology	3
ASTRON 100	Survey of Astronomy	4
ATM OCN 101	Weather and Climate	4
BOTANY 100	Survey of Botany	3
GEOSCI 100	General Geology	3
PHYSICS 109	Physics in the Arts	3
<b>Suggested courses options outside the College of Letters &amp; Science</b>		
AGRONOMY 100	Principles and Practices in Crop Production	4
BOTANY/PL PATH 123	Plants, Parasites, and People	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2
HORT 120	Survey of Horticulture	3
PL PATH/ BOTANY 123	Plants, Parasites, and People	3

**CULTURAL AND HISTORICAL STUDIES**

All students must complete three requirements met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation. A single course cannot satisfy more than one of the three Cultural and Historical Studies requirements listed below.

**Ethnic Studies (minimum 3 credit course)**

The Ethnic Studies requirement is intended to increase understanding of the culture and contributions of persistently marginalized racial or ethnic groups in the United States, and to equip students to respond constructively to issues connected with

our pluralistic society and global community. Courses that meet this requirement have a specific ethnic studies designation that can be utilized in a course search.

### United States or European History (minimum 3 credits)

The courses listed below count toward this requirement. Additional courses can be considered; students may consult with an advisor in Education Academic Services.

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3
<b>American Indian Studies</b>		
AMER IND 100	Introduction to American Indian Studies	3
AMER IND 250	Indians of Wisconsin	3
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND 320	Native Peoples of the Southwest	3
AMER IND/ HISTORY 490	American Indian History	3-4
AMER IND/ SOC WORK 658	American Indian Affairs	2-3
ASIAN AM/CHICLA/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	3-4
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	3-4
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM/HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
<b>Chican@ and Latin@ Studies</b>		
CHICLA/ASIAN AM/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	3
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
CHICLA/ HISTORY 461	The American West to 1850	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4
<b>Educational Policy Studies</b>		
ED POL/ HISTORY 412	History of American Education	3
ED POL/ AFROAMER 567	History of African American Education	3
<b>Gender and Women's Studies</b>		
GEN&WS/HIST SCI/ MED HIST 431	Childbirth in the United States	3
<b>History—United States History</b>		
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 102	American History, Civil War Era to the Present	4
HISTORY 109	Introduction to U.S. History	3-4
HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY 201	The Historian's Craft <sup>(topic must be approved)</sup>	3-4
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4

HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	HISTORY 427	The American Military Experience to 1902	3-4
HISTORY 221	Explorations in American History (H)	3-4	HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY 227	Explorations in the History of Race and Ethnicity	3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3	HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3	HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ CHICLA 462	The American West Since 1850	3-4
HISTORY 272	History Study Abroad: United States History	1-4	HISTORY/ECON 465	The American Economy to 1865	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HISTORY/ECON 466	The American Economy Since 1865	3-4
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4
HISTORY 304	United States, 1877-1914	3-4	HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY 305	United States 1914-1945	3-4	HISTORY/ AMER IND 490	American Indian History	3-4
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4	HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY/ JOURN 560	History of Mass Communication	4
HISTORY 329	History of American Capitalism	4	HISTORY/L I S 569	History of American Librarianship	3
HISTORY 343	Colonial British North America	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY 345	Military History of the United States	3-4	<b>History—European History</b>		
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4	HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4
HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3	HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	HISTORY 115	Medieval Europe 410-1500	4
HISTORY/HIST SCI/ MED HIST 394	Science in America	3	HISTORY 119	The Making of Modern Europe 1500-1815	4
HISTORY 403	Immigration and Assimilation in American History	3-4	HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 408	American Labor History: 1900- Present	3-4	HISTORY 123	English History: England to 1688	3-4
HISTORY/ ED POL 412	History of American Education	3	HISTORY 124	British History: 1688 to the Present	4
HISTORY/ JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4	HISTORY 201	The Historian's Craft <sup>(topic must be approved)</sup>	3-4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3	HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
			HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
			HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4

HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter- Departmental Course	3-4	HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4
HISTORY 223	Explorations in European History (H)	3-4	HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4
HISTORY 224	Explorations in European History (S)	3	HISTORY/ GEN&WS 392	Women in History	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY 417	History of Russia	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY 418	History of Russia	3-4
HISTORY 271	History Study Abroad: European History	1-4	HISTORY 419	History of Soviet Russia	3-4
HISTORY 303	A History of Greek Civilization	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 307	A History of Rome	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4	HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	4
HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4	HISTORY 467	Economic and Social History of Europe 1500-1750	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY 474	European Social History, 1830-1914	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY 475	European Social History, 1914- Present	3-4
HISTORY 333	The Renaissance	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/ RELIG ST 334	The Reformation	3-4	HISTORY/ LEGAL ST 502	Law and Colonialism	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4	HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3
HISTORY 351	Seventeenth-Century Europe	3-4	HISTORY 514	European Cultural History Since 1870	3-4
HISTORY 352	Eighteenth Century Europe	3-4	HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY 357	The Second World War	3-4	HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 358	French Revolution and Napoleon	3-4	HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
HISTORY 359	History of Europe Since 1945	3-4	HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY 367	Society and Ideas in Shakespeare's England	3-4			
HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3			

HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
<b>History of Science</b>		
HIST SCI/GEN&WS/ MED HIST 431	Childbirth in the United States	3
<b>Medical History and Bioethics</b>		
MED HIST/ HIST SCI 218	History of Twentieth Century American Medicine	3
MED HIST/GEN&WS/ HIST SCI 431	Childbirth in the United States	3
<b>Political Science</b>		
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3

### Global Perspectives (minimum 3 credits)

Global perspectives courses include courses whose primary emphasis is on:

- cultures whose origins lie outside of the western tradition, or
- analyzing and interpreting cultural differences through the study of language, gender, race, ethnicity, religion, or class, or
- cultural pluralism within specific geographical areas.

The courses listed below count toward this requirement. Additional courses can be considered; students may consult with an advisor in Education Academic Services.

Code	Title	Credits
<b>African Languages &amp; Literature</b>		
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN 201	Introduction to African Literature	3
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 211	The African Autobiography	3
AFRICAN 212	Introduction to African Popular Culture	3-4
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4

AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	4
<b>Afro-American Studies</b>		
AFROAMER/ AFRICAN 220	HipHop, Youth Culture, and Politics in Senegal	3
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
<b>Agricultural and Applied Economics</b>		
A A E/ENVIR ST 244	The Environment and the Global Economy	3
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
<b>Agronomy</b>		
AGRONOMY/ ENTOM/ NUTR SCI 203	Introduction to Global Health	3
AGRONOMY/ A A E/INTER-AG/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 377	Cropping Systems of the Tropics	3
<b>Anthropology</b>		
ANTHRO 100	General Anthropology	3
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3



ANTHRO 105	Principles of Biological Anthropology	3	ART HIST 440	Art and Power in the Arab World	3
ANTHRO/ FOLKLORE/INTL ST/ LINGUIS 211	Global Language Issues	4	ART HIST 475	Japanese Ceramics and Allied Arts	3
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3	ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3
ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	ART HIST 479	Art and History in Africa	3-4
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	<b>Community &amp; Environmental Sociology</b>		
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3	C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	3
ANTHRO/ AMER IND 314	Indians of North America	3	C&E SOC/ AFROAMER/ ANTHRO/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ANTHRO 321	The Emergence of Human Culture	3	<b>Comparative Literature</b>		
ANTHRO 322	The Origins of Civilization	3	COMP LIT 379	Literature and Ethnic Experience (topic must be approved)	3-4
ANTHRO 327	Peoples of the Andes Today	3	<b>Dance</b>		
ANTHRO 330	Topics in Ethnology (topic must be approved)	3-4	DANCE 118	African Dance	1
ANTHRO 333	Prehistory of Africa	3	DANCE 165	World Dance Cultures: Traditional to Contemporary	3
ANTHRO 350	Political Anthropology	3-4	DANCE/ THEATRE 218	African Dance Performance	2
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	DANCE/AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
ANTHRO 358	Anthropology of China	3	DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
ANTHRO 365	Medical Anthropology	3	<b>East Asian Area Studies</b>		
<b>Art History</b>			E A STDS/ HISTORY 103	Introduction to East Asian History: China	3-4
ART HIST 203	Survey of Asian Art	3-4	E A STDS/ HISTORY 104	Introduction to East Asian History: Japan	3-4
ART HIST 205	Global Arts	4	E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	3	E A STDS/ ASIAN AM/ HISTORY 276	Chinese Migrations since 1500	3-4
ART HIST 305	History of Islamic Art and Architecture	3	E A STDS/ E ASIAN 300	Humanities Topics in East Asian Studies (topic must be approved)	1-3
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century	3	E A STDS 301	Social Studies Topics in East Asian Studies (topic must be approved)	1-3
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present	3	E A STDS/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4	E A STDS/ HISTORY 341	History of Modern China, 1800-1949	3-4
ART HIST 371	Chinese Painting	3-4	E A STDS/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ART HIST 372	Arts of Japan	3-4	E A STDS/ HISTORY 363	China and World War II in Asia	3-4
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4	E A STDS/ HISTORY 454	Samurai: History and Image	3-4
ART HIST/LCA 379	Cities of Asia	3	E A STDS/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
ART HIST 411	Topics in Asian Art	3-4	<b>East Asian Languages &amp; Literature</b>		
ART HIST 412	Topics in African and African Diaspora Art History	3-4			
ART HIST 413	Art and Architecture in the Age of the Caliphs	3			
ART HIST/LCA 428	Visual Cultures of South Asia	3			

E ASIAN/LCA/ RELIG ST 235	Genres of Asian Religious Writing	3	FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
E ASIAN 253	Introduction to Japanese Culture and Civilization	3	FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2
E ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3	FOLKLORE/ RELIG ST 352	Shamanism	3
E ASIAN/KINES 277	Kendo: Integration of Martial Arts and Liberal Arts	2	FOLKLORE/LCA 374	Indian Folklore	3
E ASIAN/ E A STDS 300	Humanities Topics in East Asian Studies	1-3	<b>Gender and Women's Studies</b>		
E ASIAN/HISTORY/ LCA/RELIG ST 308	Introduction to Buddhism	3-4	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
E ASIAN/ RELIG ST 350	Introduction to Taoism	3-4	GEN&WS/ HISTORY 134	Women and Gender in World History	3-4
E ASIAN 351	Survey of Chinese Literature	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
E ASIAN 352	Survey of Chinese Literature	3	GEN&WS 427	Global Feminisms	3
E ASIAN 353	Survey of Japanese Literature	3	GEN&WS/ PORTUG 450	Brazilian Women Writers	3
E ASIAN 354	Survey of Japanese Literature	3	<b>Geography</b>		
E ASIAN 356	Chinese Painting	3-4	GEOG 101	Introduction to Human Geography	4
E ASIAN 361	Masterworks of Japanese Literature: The Tale of Genji	3	GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
E ASIAN/ RELIG ST 363	Introduction to Confucianism	3	GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
E ASIAN 367	Japanese Poetic Tradition	3-4	GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
E ASIAN 371	Topics in Chinese Literature	2-3	GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
E ASIAN 376	Manga.	3	GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
E ASIAN 378	Anime	3	GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
E ASIAN/LCA/ RELIG ST 466	Buddhist Thought	3	GEOG/ENVIR ST 339	Environmental Conservation	4
<b>Environmental Studies</b>			GEOG 340	World Regions in Global Context	3
ENVIR ST/GEOG 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4	GEOG 348	Latin America	4
ENVIR ST/A A E 244	The Environment and the Global Economy	3	GEOG 355	Africa, South of the Sahara	3
ENVIR ST/GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	GEOG 358	Human Geography of Southeast Asia	3
ENVIR ST/GEOG 339	Environmental Conservation	4	<b>History</b>		
ENVIR ST/HIST SCI/ LCA/RELIG ST 356	Islam, Science & Technology, and the Environment	3-4	HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
ENVIR ST/ M&ENVTOX/ PL PATH 368	Environmental Law, Toxic Substances, and Conservation	2	HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
<b>Folklore</b>			HISTORY 105	Introduction to the History of Africa	3-4
FOLKLORE 100	Introduction to Folklore	3	HISTORY 108	Introduction to East Asian History - Korea	3-4
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2	HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4
FOLKLORE/ AFRICAN 210	The African Storyteller	3			
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4			
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3			

HISTORY 130	An Introduction to World History	3-4	HISTORY/E ASIAN/ LCA/RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ GEN&WS 134	Women and Gender in World History	3-4	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 139	The Middle East in the 20th Century	3-4	HISTORY 319	The Vietnam Wars	3-4
HISTORY 142	History of South Asia to the Present	3-4	HISTORY 335	Korean History, 1945 to present	3-4
HISTORY/LCA 144	Traveling the World: South Asians in Diaspora	4	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY 201	The Historian's Craft (topic must be approved)	3-4	HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY 225	Explorations in Third World History (H)	3-4	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY 228	Explorations in Transnational/ Comparative History (Social Science) (topic must be approved)	3	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (topic must be approved)	3	HISTORY/ E A STDS 363	China and World War II in Asia	3-4
HISTORY 241	Latin America from 1780 to 1940	4	HISTORY 377	History of Africa, 1500 to 1870	3-4
HISTORY 242	Modern Latin America, 1898 to the Present	4	HISTORY 378	History of Africa Since 1870	3-4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4	HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4	HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3	HISTORY 444	History of East Africa	3-4
HISTORY/E ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3	HISTORY 445	History of Equatorial Africa	3-4
HISTORY 273	History Study Abroad: Non-Western History	1-4	HISTORY/LCA 450	Making of Modern South Asia	3-4
HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HISTORY 463	Topics in South Asian History	3
			HISTORY/GEN&WS/ LCA 472	Women in Turkish Society	3
			HISTORY 533	Multi-Racial Societies in Latin America	3-4
			HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
			HISTORY 555	History of Brazil	3-4
			HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

**Integrated Liberal Studies**

ILS 209	Introduction to Global Cultures	3	LCA/ENVIR ST/ HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
<b>Inter-AG</b>					
INTER-AG/A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3	LCA/RELIG ST 357	Literatures of Muslim Societies	3
<b>International Business</b>					
INTL BUS 200	International Business	3	LCA 361	Survey of Indonesian Cultures	3
<b>International Studies</b>					
INTL ST 101	Introduction to International Studies	3-4	LCA/RELIG ST 367	Jainism: Religion of Non-Violence	3
INTL ST 310	International Learning Community Seminar <small>(specific topic must be approved)</small>	1-3	LCA/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	4
INTL ST/ED POL 335	Globalization and Education	3	LCA/FOLKLORE 374	Indian Folklore	3
INTL ST/A A E 373	Globalization, Poverty and Development	3	LCA/ART HIST 379	Cities of Asia	3
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3	LCA 401	Modern Indonesian Literature	3
<b>Jewish Studies</b>					
JEWISH/ RELIG ST 377	Jewish Cultural History (in English)	4	LCA/RELIG ST 402	Thought of Gandhi	3
<b>Kinesiology</b>					
KINES/E ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2	LCA 403	Southeast Asian Literature	3
<b>Languages and Cultures of Asia</b>					
LCA 100	Introduction to Cultures of Asia	3	LCA 404	Southeast Asian Literature	3
LCA 101	Introduction to Literatures of Asia	3	LCA/RELIG ST 421	A Survey of Tibetan Buddhism	3
LCA/HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4	LCA/ART HIST 428	Visual Cultures of South Asia	3
LCA/RELIG ST 206	Introduction to the Qur'an	4	LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA/E ASIAN/ RELIG ST 235	Genres of Asian Religious Writing	3	LCA 441	Language and Society in Southeast Asia	3
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	LCA/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
LCA/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4	LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4	LCA/HISTORY 457	History of Southeast Asia to 1800	3-4
LCA/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3	LCA/HISTORY 458	History of Southeast Asia Since 1800	3-4
LCA 266	Introduction to the Middle East	3	LCA/E ASIAN/ RELIG ST 466	Buddhist Thought	3
LCA/RELIG ST 274	Religion in South Asia	3	<b>Literature in Translation</b>		
LCA/FOLKLORE 279	Introduction to Turkish Folk Literature	3	LITTRANS 211	Modern Indian Literatures in Traslation	3
LCA 300	Topics in Languages and Cultures of Asia	3	LITTRANS 214	Literatures of Central Asia in Translation	3
LCA/E ASIAN/ HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
LCA 311	Modern Indian Literatures	3	LITTRANS 231	Manga	3
LCA 314	Literatures of Central Asia	3	LITTRANS 232	Anime	3
LCA/POLI SCI 326	Politics of South Asia	3-4	LITTRANS/ RELIG ST 257	Literatures of Muslim Societies in Translation	3
LCA/LITTRANS/ THEATRE 348	In Translation: Modern Indian Theatre	3	LITTRANS 261	Survey of Chinese Literature in Translation	3
LCA/RELIG ST 355	Hinduism	4	LITTRANS 262	Survey of Chinese Literature in Translation	3
			LITTRANS 263	Survey of Japanese Literature in Translation	3
			LITTRANS 264	Survey of Japanese Literature in Translation	3
			LITTRANS 301	Modern Indonesian Literature in Translation	3
			LITTRANS 303	Southeast Asian Literature in Translation	3
			LITTRANS 304	Southeast Asian Literature in Translation	3
			LITTRANS/LCA/ THEATRE 348	In Translation: Modern Indian Theatre	3

LITTRANS 368	Modern Japanese Fiction	3	POLI SCI/LCA 326	Politics of South Asia	3-4
LITTRANS 372	Classical Japanese Prose in Translation	3	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
LITTRANS 373	Topics in Japanese Literature	3	POLI SCI 329	African Politics	3-4
LITTRANS 374	Topics in Korean Literature	3	POLI SCI 333	International Politics of the Middle East	3-4
<b>Medical History and Bioethics</b>					
MED HIST/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3	POLI SCI 346	China in World Politics	3-4
<b>Medieval Studies</b>					
MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	POLI SCI 353	The Third World in the International System	3-4
<b>Music</b>					
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	2	<b>Population Health</b>		
MUSIC 361	Non-Western Music Performance-Study Groups	1	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
<b>Nutritional Sciences</b>					
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3	<b>Religious Studies</b>		
NUTR SCI/A A E/ AGRONOMY/INTER- AG 350	World Hunger and Malnutrition	3	RELIG ST/HISTORY/ LCA 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
<b>Political Science</b>					
POLI SCI 120	Politics Around the World	4	RELIG ST/LCA 206	Introduction to the Qur'an	4
POLI SCI 182	Politics Around the World (Honors)	3	RELIG ST/E ASIAN/ LCA 235	Genres of Asian Religious Writing	3
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4	RELIG ST/E ASIAN/ HISTORY 267	Asian Religions in Global Perspective	3
POLI SCI/GEOG/ HISTORY/LCA/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	RELIG ST/LCA 274	Religion in South Asia	3
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4	RELIG ST/E ASIAN/ HISTORY/LCA 308	Introduction to Buddhism	3-4
POLI SCI/E A STDS/ HISTORY 255	Introduction to East Asian Civilizations	3-4	RELIG ST/HISTORY/ MEDIEVAL 309	The Crusades: Christianity and Islam	3-4
POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4	RELIG ST/ E ASIAN 350	Introduction to Taoism	3-4
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4	RELIG ST/ FOLKLORE 352	Shamanism	3
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4	RELIG ST/LCA 355	Hinduism	4
POLI SCI 321	Latin-American Politics	3-4	RELIG ST/ENVIR ST/ HIST SCI/LCA 356	Islam, Science & Technology, and the Environment	3-4
POLI SCI 322	Politics of Southeast Asia	3-4	RELIG ST/LCA 357	Literatures of Muslim Societies	3
POLI SCI 324	Political Power in Contemporary China	3-4	RELIG ST/ E ASIAN 363	Introduction to Confucianism	3
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4	RELIG ST/LCA 367	Jainism: Religion of Non-Violence	3
			RELIG ST/AFRICAN/ LCA 370	Islam: Religion and Culture	4
			RELIG ST/ JEWISH 377	Jewish Cultural History (in English)	4
			RELIG ST/ HISTORY 379	Islam in Iran	3
			RELIG ST 400	Topics in Religious Studies - Humanities (topic must be approved)	3-4
			RELIG ST 401	Topics in Religious Studies - Social Studies (topic must be approved)	3-4
			RELIG ST/LCA 402	Thought of Gandhi	3
			RELIG ST/LCA 421	A Survey of Tibetan Buddhism	3
			RELIG ST/HISTORY/ LCA 438	Buddhism and Society in Southeast Asian History	3-4
			RELIG ST/ HISTORY 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
			RELIG ST/E ASIAN/ LCA 466	Buddhist Thought	3
			<b>Sociology</b>		

SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC 170	Population Problems	3-4
SOC/C&E SOC 222	Food, Culture, and Society	3
SOC 225	Contemporary Chinese Society	3
SOC/GEOG/ HISTORY/LCA/ POLI SCI 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOC/GEOG/ HISTORY/LCA/ POLI SCI 252	The Civilizations of India-Modern Period	4
SOC/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SPANISH 260	Latin America: An Introduction	3-4
SOC/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/ POLI SCI 277	Africa: An Introductory Survey	4
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
<b>Spanish</b>		
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4
<b>Theatre</b>		
THEATRE/DANCE/ FOLKLORE 321	Javanese Performance	2
THEATRE/LCA/ LITTRANS 348	In Translation: Modern Indian Theatre	3
THEATRE 351	Fundamentals of Asian Stage Discipline	3

## LIBERAL STUDIES ELECTIVES

Complete additional liberal studies coursework as needed to reach the required 40 Liberal Studies credits.

## IMPORTANT NOTES REGARDING THE LIBERAL STUDIES REQUIREMENTS

- Completion of the Liberal Studies requirements is not a prerequisite to professional program application or admission.
- For the most part, courses listed in School of Education departments may not be used to satisfy the Liberal Studies requirements. School of Education departments include Art, Art Education, Counseling Psychology, Curriculum and Instruction, Dance, Educational Leadership and Policy Analysis, Educational Policy Studies, Educational Psychology, Kinesiology, Rehabilitation Psychology and Special Education, and Theatre and Drama.

- For example, KINES 100 Exercise, Nutrition, and Health, cannot count toward the Liberal Studies requirement even though it is a Biological Science course. ED PSYCH 320 Human Development in Infancy and Childhood cannot count toward Liberal Studies even though it is a Social Science course.

- Exceptions include some courses that are cross-listed in departments outside the School of Education such as ED POL/HISTORY 412 History of American Education/HISTORY/ED POL 412 History of American Education. Art and Dance department courses count toward the Humanities requirement.

- Courses that transfer to UW–Madison as departmental electives (e.g., POLI SCI X10) might meet specific Liberal Studies requirements. Students may consult with an advisor in Education Academic Services to discuss transfer electives that appear to meet specific course requirements.
- While one course may cover two requirements, students must still complete both the 40-credit total and the 9-credit minimum requirements in Humanities, Social Studies (Social Science), and Science.
  - For example, THEATRE/ENGL 120 Introduction to Theatre and Dramatic Literature, a Literature course also on the Fine Arts list, may be used to meet both the specific Fine Arts and Literature requirements of the Humanities area, but a total of 9 credits of Humanities are still required.
- Courses in other schools/colleges (excluding the School of Education) may count as Liberal Studies if they have an L&S Credit Type designation of C and/or assigned a level or breadth descriptor.
- No Liberal Studies coursework may be taken on a Pass/Fail basis.

## GUIDELINES FOR SPECIFIC PROGRAM AREAS

### Teacher Education programs

All teacher education students, except those in music education or art education, may apply any appropriate coursework from the major or minor toward the Liberal Studies requirements. Students in music and art education are restricted in this overlap. For students in music education, no more than 6 credits of music history and no more than 4 art and dance credits may count toward the 40 total credits. Music history courses (e.g., MUSIC 211 Survey of the History of Western Music, MUSIC 212 Survey of the History of Western Music) may not be used to meet the U.S./ European History requirement. Art education students may apply all of the aesthetics credits (usually 14) toward the Liberal Studies requirements, but not courses taken to meet the studio requirements.

Elementary education students can use a Science course or Social Studies course from the Environmental Education course list to meet both the Liberal Studies and Environmental Education requirements.

### Art (BFA and BS)

In general, students may not satisfy Liberal Studies requirements with courses meeting studio or aesthetics requirements. However, Art–BFA candidates may apply 4 aesthetics elective credits toward the Humanities credits.

### **Athletic Training, Kinesiology—Exercise and Movement Science, and Physical Education**

Athletic training, kinesiology—exercise and movement science, and physical education students will meet the Science requirement by completing their required science courses—e.g., chemistry and physics.

### **Communication Sciences and Disorders**

Communication sciences and disorders students should consult both the Liberal Studies requirements and the communication sciences and disorders program requirements, particularly the "related courses" section, when selecting Liberal Studies coursework. Courses may count in both places.

### **Dance (BFA & BS)**

Dance and Dance—BFA students must complete ANATOMY/ KINES 329 Human Anatomy-Kinesiology, which will meet both a Science requirement and the Science Laboratory requirement. In general, Liberal Studies requirements cannot be met with courses taken to meet other program requirements.

### **Rehabilitation Psychology**

In general, rehabilitation psychology students may not satisfy Liberal Studies requirements with courses taken to meet the Professional Education and Background requirements. Courses taken to meet the Rehabilitation Psychology Professional Background or Specialization requirements cannot also count toward the 40 Liberal Studies credits. However, if a course is taken to meet any of the three Cultural/Historical Studies requirements, the course *content* can be used to meet both requirements, but the *credits* will only count toward the Professional Education or Specialization requirements.

### **Theatre and Drama**

Theatre and drama students can apply major coursework toward the Liberal Studies requirements.

## **RESOURCES**

## **SCHOLARSHIPS/TEACH GRANTS**

### **SCHOLARSHIPS**

The generosity of alumni and friends has enabled the School of Education to distribute more than \$500,000 in scholarships and awards annually to deserving undergraduate students. Half of these are awarded through a school-wide competitive process; the other half are awarded by individual departments and programs. The list of School of Education undergraduate scholarships and honors is available at Scholarships@UW—Madison (<http://scholarships.wisc.edu/Scholarships>).

School of Education scholarships open to applicants in early February and close at the end of March. Scholarship decisions are made in early June and then communicated to applicants in July. The selection criteria for specific scholarships and awards vary and may include academic performance, excellence in a specific field or area, potential as a prospective teacher, leadership ability, personal attributes (such as returning adult status or home county), and financial need. All scholarship and award recipients must be in good academic standing in the School of Education.

Schoolwide scholarships for undergraduates are organized into two categories. All-School scholarships are open to any student in the

School of Education. Teacher Education scholarships are designated for students seeking teacher certification; most of these are awarded to students already admitted to professional teacher education programs. Generous donors have also made it possible to offer many School-wide scholarships to recruit and retain underrepresented students interested in health, education and the arts.

While many scholarships are awarded, the number of scholarships is substantially smaller than the number of eligible students.

### **TEACH GRANTS**

Students willing to teach in "high-need" teaching fields can receive TEACH grants of up to \$4,000 per year for a total of \$16,000 over their undergraduate academic career. Officially-designated "high need fields" include Master of Science with Secondary Teaching & ESL Certification, Bilingual Education; Communication Sciences and Disorders; English as a Second Language; Mathematics; Music; Reading Specialist; Science certification areas; Special Education; World Language Education certification areas, and any other fields documented as "high-need" by the federal government and/or state or local education agency (LEA). Elementary Education students completing the Early Childhood/ESL, Middle Childhood-Early Adolescence/ESL or the Middle Childhood-Early Adolescence/Special Education program options are also eligible for a TEACH Grant.

Students receiving TEACH grants must complete a service obligation of four years of teaching their high-need subject in a designated low-income school within their first eight years of teaching. "Low-income schools" are defined as public or private nonprofit elementary or secondary schools eligible for assistance under Title I of the Elementary and Secondary Education Act. In Wisconsin over a thousand schools are designated as "low income."

TEACH grant applicants must attain certain academic eligibility criteria. For example, candidates must have scored minimally above the 75th percentile on a nationally normed admissions test or have earned a 3.25 minimum cumulative grade point average. TEACH grants are not need-based, so students may receive them without regard to financial background. Grant recipients must have completed a Free Application for Federal Student Aid (FAFSA) (<http://www.fafsa.ed.gov>) to be eligible.

Students should indicate their interest in the TEACH Grant program via their FAFSA and by completing the program application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/scholarships-and-grants>).

## **UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE - EDUCATION ACADEMIC SERVICES (EAS)**

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and should consider meeting with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office. Current materials on undergraduate program admission and graduation requirements are available on this site.

Students will find that questions can be answered by and guidance sought from EAS advisors. EAS staff members consult with and refer students to faculty members and department advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## STUDENT DIVERSITY SERVICES

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. Student Diversity Programs support and promote a welcoming, culturally responsive and supportive School community to help fulfill the School's vision to be at the forefront of preparing students from underrepresented backgrounds to enter and excel in higher education.

Student Diversity Programs (SDP) houses programs that serve students from K–12 to those in graduate school. These programs include:

- **College Access Program (CAP):** A three-week summer residential pre-college program with an emphasis on majors in the School of Education. CAP prepares future first-generation college students or students from economically disadvantaged backgrounds for college admission, majors, and future careers.
- **The Office of Undergraduate Recruitment and Retention (OURR):** OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education. OURR staff perform outreach, recruitment and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, and financial aid, and career exploration. OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions.
- **American Indian Curriculum Services:** An office that provides assistance to teacher education programs, faculty, staff, and students, as well as in-service teachers and regional schools, for the teaching and learning of the history, cultures, and tribal sovereignty of the American Indian Nations of Wisconsin in PK–16 education.
- **Summer Education Research Program (SERP):** A ten-week residential summer research program for undergraduate students interested in pursuing graduate degrees in the School of Education. Program

participants conduct research projects under the supervision of faculty mentors, learn how to prepare themselves for graduate school, and present their final projects to faculty members, peers, and the university community.

- **Education Graduate Research Scholars (Ed–GRS):** A graduate fellowship program and research community which provides not only funding to graduate students from underrepresented backgrounds, but also professional development opportunities and opportunities to connect with faculty members and peers throughout the School.

Students are invited to visit SDP at 105 Education Building—stop in or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that fits you and helps you reach your career goals
- Researching graduate schools and preparing application materials
- Beginning your job search and not sure where to start
- Want assistance with your résumé, cover letter, or interviewing skills
- Want to network and connect with potential employers

The Career Center provides resources and individual consultations to assist you in reaching your career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu>).

- Explore career possibilities for specific majors in the *Investigate Career Options*. This section of the website provides tools for clarifying your personal criteria for success, identifying specific career options linked to majors and identifying steps for career/major selection, and includes strategies for making the most of your academic and student experience.
- Confirm your decisions. Gain hands-on experience in the career field you are pursuing. Assess the perceptions of your career and major options for accuracy and develop professional and soft skills. The *Test Drive and Confirm Career Choice* website section provides strategies for gaining real-world experience.
- Prepare to gain entry into the next phase of your career. Learn about graduate school requirements and the application process. Develop your promotional materials for employers and graduate schools and obtain feedback and suggestions for enhancing them. Obtain materials to support your candidacy. The *Prepare and Connect* section provides offers additional details.
- *Implement* your plans for your future. Attend recruiting events. Apply for graduate school acceptance or for job opportunities. Practice your interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. Schedule an appointment here (<http://bit.ly/CCAppt>).

Informational workshops and career-related events (<http://careercenter.education.wisc.edu/workshops>) are conducted each semester.



The Career Center also coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semesters.

## STUDY ABROAD

About 25% of undergraduates make study abroad an integral part of their UW–Madison experience.

International Academic Programs (IAP) (<https://www.studyabroad.wisc.edu>) at UW–Madison offers over 200 study abroad options in about 60 countries on 6 continents. In addition to taking the opportunity to learn new languages, understand new cultures and see the world, UW–Madison students study abroad to complement their on-campus academic goals, strengthen their professional potential and enrich their personal lives.

Students of all academic levels and majors study abroad. While many programs include language training—from the basics to full language immersion—most IAP programs have no language requirement and include courses taught in English.

All courses taken abroad through IAP count as “in-residence” credit, just like taking courses on campus at UW–Madison, so students advance towards their degrees while abroad. And study abroad isn’t limited to classroom experience. Many students also complete internships, do research, fieldwork and service learning.

In addition to resources on health, safety, academic planning and other aspects, UW–Madison students receive the information and guidance they need to plan a study abroad experiences that fits their budgets. Many study abroad programs cost the about the same or less than studying on campus, and student financial aid can be applied in most cases.

While IAP offers programs to students of all majors, including to students in the College of Agricultural and Life Sciences in collaboration with the CALS International Programs office, the College of Engineering and the School of Business also offer programs tailored specifically to the needs of their students. All of these program options are listed at [studyabroad.wisc.edu/explore](http://studyabroad.wisc.edu/explore).

For more information on study abroad at UW–Madison (p. 17), see Study Abroad (<http://studyabroad.wisc.edu>) or call 608-265-6329.

## UNDERGRADUATE RESEARCH SCHOLARS PROGRAM

The Undergraduate Research Scholars program (URS) is dedicated to enhancing the academic experience of UW–Madison students by providing first and second year undergraduates with opportunities to earn credit for participating in the research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities. Please refer to Undergraduate Research Scholars (<http://urs.ls.wisc.edu>) for more information.

## MERIT (MEDIA, EDUCATION RESOURCES, AND INFORMATION TECHNOLOGY)

301 Teacher Education Building, 608-263-4750

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

MERIT offers information and technology services to the School of Education and UW–Madison community partners. MERIT is designed as a collaborative and comprehensive cluster of service and support for the School of Education, the UW–Madison and beyond. Staff play an active role in the design and implementation of programs which connect the K-12 community to UW–Madison.

Some of our services include evaluation and selection of tools for delivery of content, instructional design and consulting for development of online learning, library services and collections to support practicing teachers (including edTPA and equipment loan), workshops and instructional support aimed at adoption of new tools, media development, web hosting, and web design.

For a much deeper look at our service descriptions, please visit: <http://meritservices.education.wisc.edu/Category>

## COOPERATIVE CHILDREN'S BOOK CENTER (CCBC)

401 Teacher Education, 608-263-3720  
[ccbcinfo@education.wisc.edu](mailto:ccbcinfo@education.wisc.edu), [ccbc.education.wisc.edu/](http://ccbc.education.wisc.edu/) (<https://ccbc.education.wisc.edu>)

The CCBC is a library of the School of Education that provides Education students, faculty, and staff with a noncirculating collection of children’s and adolescent literature. The CCBC also serves other adults on campus and across the state who are interested in literature for the young, including Wisconsin teachers and school and public librarians.

This nationally unique library is the primary resource on campus and elsewhere for contemporary books published for children and young adults from preschool through high school ages. CCBC resources include extensive reference materials about literature for the young and a wide range of books for children and adolescents, including a book examination collection of new and recently published books, a comprehensive collection of recommended contemporary books, and historical literature from the 19th and early 20th centuries. The CCBC is nationally known for its services related to intellectual freedom and advocacy for multicultural literature. Each year the CCBC compiles and releases statistics documenting the number of children’s and young adult books by and/or about people of color published in the United States

As a library of the School of Education, the CCBC is committed to being a vital part of the teacher education experience on campus. The CCBC’s noncirculating collection provides immediate access to a wide range of literature for the young. CCBC librarians are available to meet with education students to help them identify children’s and adolescent literature to fulfill class assignments, as well as to use in practicum and student teaching classrooms. Librarians are also available to meet with faculty and teaching assistants to discuss children’s and young adult literature as it relates to the courses they are teaching.

The CCBC website (<https://ccbc.education.wisc.edu>) provides full-text access to many national children’s and young adult literature awards and recommended lists as well as specialized bibliographies from CCBC staff. The CCBC offers special events throughout the academic year that provide opportunities to hear from authors and illustrators, as well as to interact with others who are interested in books for children and teens.

## HONORS

### DEAN'S LIST

Students have at least a 2.5 cumulative GPA and 3.5 or higher for the semester. Students must have received no incompletes in graded courses, no unreported grades, or end-of-semester academic actions for the semester. Credit/no credit and pass/fail courses are not considered in meeting the requirements for the Dean's List.

### GRADUATING WITH HONORS AND GRADUATING WITH DISTINCTION

Undergraduate students are invited to wear an honors stole at graduation, representing **Graduating with Honors**, if they have indicated they expect to graduate at the conclusion of the current semester, have a cumulative GPA that places them in the top 20% of students expecting to graduate in their school/college, and have earned at least 60 credits in residence at UW–Madison. Credits in progress in the current semester count towards the 60 credit requirement.

**Graduating With Distinction** is a separate calculation and is posted to the undergraduate student's transcript after all grades and degrees have been recorded. Students qualify for the Distinction notation if they have received their degree, have a cumulative GPA that places them in the top 20% of degree recipients in their school/college, and have earned at least 60 credits in residence at UW–Madison.

### HONORS OPTIONS THROUGH THE COLLEGE OF LETTERS & SCIENCE

Through a collaboration between the School of Education and the College of Letters & Science (L&S), students in the School of Education may participate in the L&S Honors Program, including L&S Honors in the Liberal Arts (HLA), Honors in the Major (HM), or Comprehensive Honors (both HLA and HM).

To learn more about the L&S Honors options and curricula, please visit the program's website (<http://www.honors.ls.wisc.edu>). Students with questions about how L&S Honors connects with School of Education programs and requirements should contact Education Academic Services at 608-262-1651 to make an appointment with an advisor.

Interested students are invited to apply to the program. Admission is competitive and space is limited, but incoming first-year students who did not apply, or are denied admission, may apply later as continuing students.

## ART

**Undergraduate degrees granted:** B.S. in Art, B.S. in Art Education, Bachelor of Fine Arts (BFA)

The Department of Art conducts an exemplary experimental undergraduate program emphasizing the importance of a broad background in the basics of visual arts, liberal arts, and knowledge of the history and purpose of art. The nationally and internationally recognized faculty of visual artists provides a stimulating educational environment to prepare students for careers in a broad array of creative fields and/

or graduate study. The program also supports and encourages the development of a visually literate community.

The art department offers two professional programs, art and art education. Art majors may pursue either the bachelor of science degree (p. 1261) or the bachelor of fine arts degree (p. 1267). Art education majors (p. 1250) receive the Bachelor of Science–Art Education degree and eligibility for licensure to teach in both elementary and secondary schools. Entrance requirements vary for each program. For exhibition purposes, the department may temporarily retain one piece of work from each student in art studio courses. All degree programs are accredited by the National Association of Schools of Art and Design (NASAD).

## DEGREES/MAJORS/CERTIFICATES

- Art Education, B.S. (p. 1250)
- Art, B.S. (p. 1261)
- Art, BFA (p. 1267)
- Studio Art, Certificate (p. 1277)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website. (<http://www.education.wisc.edu/art>)

## ART EDUCATION, B.S.

Art education is a perfect choice for people who love making art, viewing and engaging in lively discussions about art, and working in creative environments. Teaching art provides not only a meaningful career, but a unique opportunity to help other people lead interesting, fulfilled, and creative lives.

UW–Madison's art education program provides essential preparation for a variety of careers in art education. Students work directly with children and adolescents in both school and community-based field placements in every semester of the program. They study with world-renowned art and education faculty in a range of rigorous and engaging studio, art history, curriculum and instruction, educational psychology, and educational policy studies courses, while also connecting with Madison's vibrant arts community through field trips and service learning.

Our students experience all the advantages of a Big Ten university, while receiving personalized attention within the major, especially in the Art Foundations Program. This series of interrelated studio and lecture courses is taken by art and art education majors during their first year on campus as preparation for further study in studio art and design.

Graduates of our program earn a bachelor of science degree, a career-ready Wisconsin teaching license in K–12 art education, and gain the skills, knowledge, and confidence to teach the visual arts in public and private schools, at the elementary and secondary levels, in the United States and internationally, and in community settings such as art museums, maker spaces, and senior centers.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The art education program at the University of Wisconsin–Madison follows admission procedures intended to result in an academically qualified student body as varied as possible in terms of academic strengths, life experiences, and professional experiences. As the population of our nation's public schools becomes increasingly multicultural, there is a growing need for teachers from diverse backgrounds. The art education faculty encourages qualified applicants from underrepresented groups to apply for admission to the art education program. In addition, the faculty wishes to broaden the field of art education; individuals representing a wide range of visual arts and design are encouraged to apply. A diverse cohort of students enriches the art education teacher certification program as well as the profession. Undergraduate art education students generally apply to the professional part of the art education degree program in their sophomore year.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in art education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in art education receive a “pre-professional” classification of PAED.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the School of Education by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1252)). It is not necessary to be a “pre-professional” student before applying to a professional program. Admission as a “pre-professional” student does not guarantee admission to the professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor. Prospective art education majors should meet with the art education program coordinator, Dr. Mary Hoeffler.

#### PROSPECTIVE TRANSFER STUDENTS

Prospective transfer students should meet as early as possible with the art education program coordinator and with an advisor at Education Academic Services. Studio and aesthetics coursework taken at another institution may need to be evaluated by the art department advisor or a faculty member in the art department. Because students interested in art education must meet minimum eligibility requirements and apply within strict deadlines, prospective transfer students should meet with an Education Academic Services advisor as soon as possible.

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

Program admission occurs once a year, effective in the fall. Selection is made the previous spring. Students who already possess a B.S., BFA, or advanced degree in visual arts and seek certification in art education follow the same application procedures. Resources limit the number of students who can be served by the UW–Madison art education teacher education program. In recent years the art education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to art education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

#### PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be considered for admission, students must:

- complete at least 54 credits of transferable college-level coursework to include 20 credits of Studio Art, and 6 credits of the Aesthetics requirement. This coursework must be completed by the end of the spring semester of the application year.
- earn a cumulative grade point average of at least a 2.75 on a 4.0 scale, based on all transferable college coursework attempted at UW–Madison and other campuses.<sup>1</sup> Transcripts for all college-level coursework (excluding courses taken at UW–Madison) must accompany the program application and supporting materials.

- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- prepare a portfolio. Applicants should include images of their artwork that best represents their skills, knowledge, and interests in art.
- submit completed program application form(s), transcripts, portfolio, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## PROGRAM SELECTION

All qualified applicants will be reviewed individually by the art education program coordinator and selection committee. The committee will consider numerous factors when selecting a diverse student cohort, including the following:

- Grade point average (GPA)
- Course selection and performance
- Pre-Professional Skills Test/Praxis I scores
- Life experiences (resume and written statement)
- Supporting materials
- Consideration of student's race, ethnicity, culture, geographic and economic background.

Candidates will be provisionally admitted and notified of their admission status. The offer of admission will specify a deadline for acceptance of this offer. Applicants must respond to Education Academic Services

by this date; those who do not will forfeit their position. Admission is not final until Education Academic Services receives the acceptance and program eligibility is confirmed through spring semester grades.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The art education program is divided into five areas of study:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.

- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- *Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- *Major* requirements offer an in-depth study of studio art.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a three-semester sequence of art education teaching methods course work and field experiences in schools.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the

Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the foundations program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<http://www.figs.wisc.edu/catalog>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<http://art.wisc.edu/art/academics/undergraduate-degree-requirements/art-foundations-first-year-interest-group>) is available on the departmental website.

## AESTHETICS REQUIREMENT

Complete four courses focusing on the history of art and contemporary developments in the visual arts.

Code	Title	Credits
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	4
Select one of the following: <sup>1</sup>		3-4
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 203	Survey of Asian Art	
ART HIST 205	Global Arts	
ART HIST/AFROAMER 241	Introduction to African Art and Architecture	
ART HIST/AFROAMER 242	Introduction to Afro-American Art	

ART HIST 305	History of Islamic Art and Architecture
ART HIST 307	Early Chinese Art: From Antiquity to the Tenth Century
ART HIST 308	Later Chinese Art: From the Tenth Century to the Present
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST 371	Chinese Painting
ART HIST 372	Arts of Japan
ART HIST 375	Later Japanese Painting and Woodblock Prints

<sup>1</sup> Additional art history courses addressing arts from underrepresented cultures will be considered.

## MAJOR REQUIREMENTS

Students must complete 48 credits of studio art, including the specific requirements below. At least 15 upper-level studio credits must be taken in residence on the UW–Madison campus. Upper-level classes include Art courses numbered 214 and above, excluding Art 236, 246, and 338. *Note:* These requirements are effective beginning spring 2016 admission to art education.

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3
ART 222	Introduction to Painting	3-4
ART 338	Service Learning in Art	2
ART 306	Relief Printmaking	3-4
or ART 336	Serigraphy	
ART 244	Art Metal I	3-4
ART 224	Ceramics I	4
ART 214	Sculpture I	3-4
or ART 334	Wood Working	

Take additional art electives to reach the minimum of 48 credits

## PROFESSIONAL EDUCATION REQUIREMENTS

Code	Title	Credits
<b>Development (Minimum of 3 credits)</b>		<b>3</b>
Select one of the following:		
ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
<b>Learning (Minimum of 3 credits)</b>		<b>3</b>
ED PSYCH 301	How People Learn	

<b>Foundations of the Profession (Minimum of 3 credits)</b>		<b>3</b>
ED POL 300	School and Society	
or ED POL/ HISTORY 412	History of American Education	

<b>Literacy, Including Reading</b>		<b>3</b>
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	

<b>Special Education</b>		<b>3</b>
(This requirement is included in the professional sequence)		

CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	
or CURRIC/ ART ED 570	Art in Exceptional Education	

<sup>1</sup> Will also fulfill the liberal studies requirement in U.S./European history.

## ART EDUCATION PROFESSIONAL SEQUENCE

The three-semester professional sequence begins in the spring semester after admission. It is recommended that students complete ED PSYCH 301 How People Learn prior to, or during, the first semester of the sequence. Most courses are only offered once a year. An assessed performance requirement is an integral part of certification/degree requirements. Satisfactory performance in each course, as measured by the criteria contained within each course, is requisite to proceeding to successive semesters of the sequence. Successful completion of all art education courses is required to receive the B.S.–Art Education degree.

Code	Title	Credits
<b>Semester 1</b>		
Spring Semester after Admission		
ART ED 326	Design Education	3
ART ED/CURRIC 570	Art in Exceptional Education	3
or CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	
<b>Semester 2</b>		
Fall Semester		
<i>Module 1 (first 7 weeks)</i>		
ART ED/CURRIC 323	Art in Elementary Education	3
ART ED/CURRIC 470	Practicum in Elementary School Art	3
<i>Module 2 (second 7 weeks)</i>		
ART ED/CURRIC 324	Art in Secondary Education	3
ART ED/CURRIC 493	Practicum in Secondary School Art	3
<b>Semester 3</b>		
Spring Semester		
ART ED/CURRIC 423	Student Teaching in Art in Elementary Schools	6
ART ED/CURRIC 424	Student Teaching in Art in Secondary Schools	6

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average, first effective for students admitted into the art education program fall 2016. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major course work.
- 2.75 cumulative grade point average in all upper-level major course work. Art courses numbered 214 and above, excluding 236, 246, and 338, are considered upper-level courses.
- 2.75 in professional education course work (excluding practicum and student teaching).
- Major Residency. Students must complete a minimum of 15 upper-level studio credits in residence on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 120 total credits.

### DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and

certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p. 1257).

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will identify and explore important eras, developments, movements, and theories in historical and contemporary art practice.
2. Students will identify and analyze the elements and principles of design in the work of other artists and consistently and effectively employ the elements and principles in their own studio work.
3. Students will develop technical skill, a personal creative practice, and knowledge of the historical and current practices of at least four separate visual art disciplines, including 2D, 3D, 4D, and graphics areas.
4. Students will examine best practices (historical and contemporary) in art curriculum planning, instruction and assessment, apply knowledge to k-12 curriculum development, and effectively teach art to diverse populations in community and school-based settings.
5. Students will meet all School of Education Teacher Education Standards and DPI k-12 art licensure requirements (including child development and learning theories, history of American Education, and the role of art in literacy education).

## ADVISING AND CAREERS

### ADVISING

#### ART EDUCATION ADVISING

Prospective off-campus and on-campus art education students will meet with the art education program coordinator Dr. Mary Hoefflerle, 6241 Humanities Building, 455 North Park Street, hoefflerle@wisc.edu; 608-772-7016. Students considering art education should contact her as soon as possible. Pre-admission advising is conducted by the Department of Art and staff at Education Academic Services (EAS), see below.

The undergraduate art program advisors are Julie Ganser, julie.ganser@wisc.edu, and Branden Martz, branden.martz@wisc.edu, located at 6241 Humanities Building, 455 North Park Street. Appointments can be made by calling 608-262-1660.

#### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

#### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their

professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

#### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
www.education.wisc.edu/sdp (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

#### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application



process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.

- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website. (<http://www.education.wisc.edu/art>)

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been

placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water. Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4

GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

#### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

#### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading

Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

#### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

#### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

#### Pre–Student Teaching Practicum

The pre–student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

#### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management.

Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

## Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

## Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

## Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These

artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## ART, B.S.

The Department of Art's three degree programs provide students with the critical and artistic skills needed to excel in contemporary, multidisciplinary art and design practices. Degree programs are highly ranked at both the national and the international level, attracting talented students with excellent academic credentials and a passion for art and design.

UW–Madison art graduates are experts in creative problem solving, visual communication, teamwork and collaboration, and project management. These acquired skills and experiences can lead to fascinating and rewarding careers in animation, ceramics, glassblowing, metal fabrication, graphic and multi-media design, illustration, videography, photography, teaching and, of course, as a gallery artist.

Our graduates also work as iPhone and iPad app designers, medical imagists, technical assistants for major film companies, book designers, costume and float designers, jewelry fabricators and more (<https://>

art.wisc.edu/undergraduate/undergraduate-degrees). (<https://art.wisc.edu/undergraduate/undergraduate-degrees>) The Department of Art believes that hardworking students who learn to harness and nurture their creative energies today will be the people influencing progress tomorrow.

The art curriculum fosters positive collaboration and innovative art production while encouraging diverse points-of-view. Students develop unique, creative voices while enjoying the close-knit atmosphere of a department that prides itself on having a very low teacher-to-student ratio, with an average class size of 10–12 students.

Degree programs feature a rigorous foundation program, a set of six courses that students often complete by participating in the popular *Contemporary Art & Artists First Year Interest Group (FIG)*, before branching out into one or more specialized areas (<https://art.wisc.edu/media-disciplines>) such as ceramics, drawing, glass and neon, graphic design, papermaking, performance, photography, etc.

The art department has a remarkable history. UW–Madison was the first university to create a glass-blowing laboratory for art students. The printmaking programs are consistently ranked first in the country and the art metals program is currently ranked third. A large number of undergraduates go on to study in some of the most prestigious MFA programs in the country, and to exhibit their art in regional, national, and also international venues. The school's large faculty of world-class artists is committed to the development of their undergraduate students.

The new Art Lofts Building is the home of state-of-the-art ceramics, glass, papermaking and bronze foundry facilities and a large art performance space. The Humanities Building houses a student gallery and printmaking, painting, drawing, design, comics, photography, multimedia/digital, video/performance, metals, wood, and sculpture facilities, as well as art education classrooms.

The department offers three degree programs: the Bachelor of Science in Art (p. 1261), the Bachelor of Fine Arts (p. 1267), or the Bachelor of Science in Art Education (p. 1250). The bachelor of fine arts (BFA) degree program in art differs from the B.S.–Art degree by requiring a larger number of studio and aesthetic courses. This degree program is often selected by students wishing to develop a refined visual art portfolio in preparation for a career as a professional artist and/or for graduate study. The bachelor of science in art education degree program certifies students to teach in both elementary and secondary schools.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The Art–B.S. degree program currently admits on-campus students to begin in the fall, spring, and summer. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for updates to eligibility requirements prior to submitting an application.

### ENTERING THE SCHOOL OF EDUCATION

#### PROSPECTIVE UW–MADISON APPLICANTS

Prospective applicants to UW–Madison are strongly encouraged to submit a portfolio to the Department of Art for review. Though a portfolio is not required, it does provide the

art department an opportunity to make a recommendation on the applicant's behalf to UW–Madison's Office of Admissions and Recruitment. The Office of Admissions and Recruitment makes final determinations regarding the admission status of all applicants. Additional information, including submission guidelines, is available on the How to Apply (<https://art.wisc.edu/undergraduate/undergraduate-application>) page of the art department's website.

### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and off-campus transfers are admitted directly to the Art–B.S. degree program. All other on-campus students interested in becoming Art students must follow the application procedures outlined below.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. BFA candidates cannot transfer directly into the Art–BFA degree program; instead, they will be admitted to campus as if pursuing the Art–B.S. degree program (ART classification) and can apply for the BFA program once enrolled on campus. Transfer students are strongly encouraged to meet with the art department advisor prior to coming to campus; call 608-262-1660 to schedule an appointment. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

On-campus students interested in becoming art students must first apply to the Art–B.S. degree program. These students should complete and submit the application, as well as transcripts from all other colleges or universities attended, to Education Academic Services, Room 139 Education Building, 1000 Bascom Mall, at any time during the

academic year. Applications cannot be processed without a complete academic record. (A transfer credit evaluation cannot be accepted in place of a transcript.) The program application must be signed by the undergraduate advisor in the Department of Art; call 608-262-1660 to schedule an appointment.

## CRITERIA FOR ADMISSION

- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Filing of all required paperwork, including professional program application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) and transcripts. Application must be signed by the art department advisor.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) For more information on this rule, see this link (p. 1227).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

The bachelor of science (B.S.) degree program in art has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- *Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- *Major* requirements permit in-depth studies of studio art. After taking courses in the Foundations area, students complete coursework in each of the four studio areas: 2D, 3D, 4D, and Graphics. B.S.–Art majors are required to reach an advanced level in at least one studio discipline.
- *Elective* credits to pursue individual areas of interest, such as a second major or additional studio credits. Many B.S.–Art students complete an additional major from the College of Letters & Science. Some use this major to complement their art preparation (e.g., focusing on written communication for an eventual career in advertising), or a subject that complements their interest in art. Students interested in medical illustration, for example, may wish to take courses in the biological sciences. Others select majors that reflect interests completely unrelated to art.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the Foundations Program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<http://www.figs.wisc.edu/catalog>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<https://art.wisc.edu/media/disciplines/foundations>) is available on the departmental website.

## AESTHETICS REQUIREMENTS

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3

ART 208	Current Directions in Art (component of the Foundations Program)	3
Select two additional courses from the following:		8
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	
ART 438	Cultural Context of Graphic Design and Typography <sup>1</sup>	

<sup>1</sup> Only Graphic Design students may count ART 438 toward either the aesthetics or studio requirements.

## MAJOR REQUIREMENTS

The requirements listed here are effective for students admitted to the program effective summer 2016. Students admitted prior to this time can find their major requirements listed in previous editions of the *Undergraduate Catalog* and on their DARS reports.

Complete a minimum of 45 studio credits, including the specific coursework below. No more than 58 studio credits will be counted toward the minimum 120 credits required for the B.S. degree. Thus, if a student wishes to graduate with the minimum of 120 credits, 62 of these credits must be "non-studio" coursework.

Major residency requirement—Students completing the B.S. degree must complete at least 24 credits of major studio coursework in residence on the UW–Madison campus.

Art and BFA degree students have priority access to studio courses.

Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

### REQUIRED STUDIO FOUNDATIONS COURSES

Complete the following:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

### REQUIRED STUDIO BREADTH COURSES

Select one course in each of the 2D, 3D, 4D, and Graphics areas. Students will also take ART 508 Colloquium in Art at least once and complete a 500-level or 600-level art studio course in at least one discipline.

#### 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4



### 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4

### 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

### Graphics

Select one of the following:

Code	Title	Credits
ART 306	Relief Printmaking	3-4
ART 316	Lithography	4
ART 326	Etching	4
ART 336	Serigraphy	3-4
ART 346	Basic Graphic Design	4
ART 348	Introduction to Digital Printmaking	4
ART 376	Photography	3-4
ART 446	Artists' Books	4

### Art Colloquium

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

### Advanced Studio Requirement

Complete a 500-level or 600-level art studio course in at least one discipline. ART 508 Colloquium in Art, ART 608 Interdisciplinary Critique in the Visual Arts, and ART 699 Independent Study will **not** fulfill this requirement.

### ELECTIVE STUDIO COURSES

Select elective studio courses (<http://guide.wisc.edu/courses/art>) to reach the minimum of 45 credits.

### AREAS OF CONCENTRATION

Although a concentration is not required, students may wish to select a sequence of related courses to develop an area of interest. Concentrations in graphic design, multi-media, 2D studio, 3D studio, and printmaking are just some of the concentrations (<https://art.wisc.edu/media-disciplines>) listed on the Art department's website.

### ELECTIVE COURSEWORK

B.S.–Art students must complete additional coursework to reach the minimum 120 credits required for the degree. These students must complete a minimum of 62 non-studio credits. Another way of describing this requirement is that only 13 additional studio credits beyond the required 45 credits can count toward the 120 credits. Students interested in completing more than 58 total studio credits may wish to consider the BFA degree program, which requires at least 72 studio credits.

**Completing an additional major.** Students choosing the B.S.–Art option often also choose to complete an additional major in the College of Letters & Science. Review Academic Policies and Procedures (p. 1227) to find detailed information about declaring an additional L&S major while a student in the School of Education.

**Completing two degree programs.** Students also occasionally choose a second degree in another campus school or college. For instance, students may choose an Art degree program as well as a science degree program in the College of Agricultural and Life Sciences. See Academic Policies and Procedures (p. 1227) for more detailed information about the requirements and the approvals necessary to be permitted to complete dual degrees. **Important note:** Some campus schools/colleges do not permit dual degrees; at the present time this includes the College of Letters & Science and the College of Engineering. These policies do not permit students to complete, for example, an Art degree program and a Journalism degree program.

Students interested in additional majors or dual degrees should consult carefully with an Education Academic Services advisor. Students may be referred to Associate Dean Jeffrey Hamm for additional consultation and approvals.

### GPA AND OTHER GRADUATION REQUIREMENTS

#### GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework..

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 2.5 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 2.5 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding Art 236, 246, and 338).
- Major Residency: Must complete at least 24 credits of major coursework in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 120 credits to include at least 62 non-studio credits are required for graduation in the Art–B.S. degree program.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. To expose, broaden, and challenge students' understanding of past and present art production and provide knowledge of historical, thematic, critical and theoretical issues.
2. To contextualize studio assignments and expand their verbal and visual vocabulary, supporting the development of critical thinking and writing skills.

3. To learn the fundamental elements of art through investigation of formal, technical and conceptual issues and to increase skills in researching and creative problem solving.
4. To introduce students in the Bachelor of Science in Art and Bachelor of Fine Arts Degree Programs to art-making in four areas of practice, including two-dimensional, three-dimensional, graphic art, and interactive art. To broaden student understanding of the concepts and practices distinct to each area of discipline.
5. To facilitate a peer community among a like-minded and diverse cohort of students.
6. To facilitate advanced level competencies in at least one discipline for BS-Art majors and at least two disciplines for BFA majors.
7. To develop a skill set through professional practice experience in the context of an undergraduate art curriculum.

## ADVISING AND CAREERS

### ADVISING

#### ART DEPARTMENT ADVISING

Prospective off-campus and on-campus B.S.–Art and BFA–Art majors will meet with the undergraduate art program advisors, Julie Ganser, [julie.ganser@wisc.edu](mailto:julie.ganser@wisc.edu), and Branden Martz, [branden.martz@wisc.edu](mailto:branden.martz@wisc.edu), ([branden.martz@wisc.edu](mailto:branden.martz@wisc.edu)) located at 6241 Humanities Building, 455 North Park Street. Appointments can be made by calling 608-262-1660. Students are also strongly encouraged to confer with an Education Academic Services advisor on a regular basis, see below.

#### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

#### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty

members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for

career/major selection. It includes strategies for making the most of a student's academic and student experience.

- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website. (<http://www.education.wisc.edu/art>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## ART, BFA

The Department of Art's three degree programs provide students with the critical and artistic skills needed to excel in contemporary, multidisciplinary art and design practices. Degree programs are highly ranked at both the national and the international level, attracting talented students with excellent academic credentials and a passion for art and design.

UW–Madison art graduates are experts in creative problem solving, visual communication, teamwork and collaboration, and project management. These acquired skills and experiences can lead to fascinating and rewarding careers in animation, ceramics, glassblowing, metal fabrication, graphic and multi-media design, illustration, videography, photography, teaching and, of course, as a gallery artist.

Our graduates also work as iPhone and iPad app designers, medical imagists, technical assistants for major film companies, book designers, costume and float designers, jewelry fabricators and more (<https://art.wisc.edu/undergraduate/undergraduate-degrees>). The Department of Art believes that hardworking students who learn to harness and nurture their creative energies today will be the people influencing progress tomorrow.

The art curriculum fosters positive collaboration and innovative art production while encouraging diverse points-of-view. Students develop unique, creative voices while enjoying the close-knit atmosphere of a department that prides itself on having a very low teacher-to-student ratio, with an average class size of 10–12 students.

Degree programs feature a rigorous foundation program, a set of six courses that students often complete by participating in the popular *Contemporary Art & Artists First Year Interest Group (FIG)*, before branching out into one or more specialized areas (<https://art.wisc.edu/media-disciplines>) such as ceramics, drawing, glass and neon, graphic design, papermaking, performance, photography, etc.

The art department has a remarkable history. UW–Madison was the first university to create a glass-blowing laboratory for art students. The printmaking programs are consistently ranked first in the country and the art metals program is currently ranked third. A large number of undergraduates go on to study in some of the most prestigious MFA programs in the country, and to exhibit their art in regional, national, and also international venues. The school's large faculty of world class artists is committed to the development of their undergraduate students.

The new Art Lofts Building is the home of state-of-the-art ceramics, glass, papermaking and bronze foundry facilities and a large art performance space. The Humanities Building houses a student gallery, and printmaking, painting, drawing, design, comics, photography, multi-media/digital, video/performance, metals, wood, and sculpture facilities, as well as art education classrooms.

The department offers three degree programs: the Bachelor of Science in Art (p. 1261), the Bachelor of Fine Arts (p. 1267), or the Bachelor of Science in Art Education (p. 1250). The Bachelor of Fine Arts (BFA) degree program in Art differs from the B.S.–Art degree by requiring a larger number of studio and aesthetic courses. This degree program is often selected by students wishing to develop a refined visual art portfolio in preparation for a career as a professional artist and/or for graduate study. The Bachelor of Science in Art Education degree program certifies students to teach in both elementary and secondary schools.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students interested in the Art–BFA degree program initially enroll in the Art–B.S. degree program while completing prerequisite coursework and establishing other criteria for eligibility. A portfolio review is part of the BFA program selection process. Students will typically apply to the BFA program in their sophomore or junior year and must have attained a minimum of sophomore standing. An application may be submitted during the semester that the required courses will be completed.

### APPLICATION AND ADMISSION

New freshmen and off-campus transfers are admitted directly to the Art–B.S. degree program and receive an ART classification. Both art

degree programs currently admit on-campus students to begin in the fall, spring, and summer. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for updates to eligibility requirements prior to submitting an application.

## APPLICATION PROCEDURES

### PROSPECTIVE UW–MADISON APPLICANTS

Prospective applicants to UW–Madison are strongly encouraged to submit a portfolio to the Department of Art for review. Though a portfolio is not required, it does provide the art department an opportunity to make a recommendation on the applicant's behalf to UW–Madison's Office of Admissions and Recruitment. The Office of Admissions and Recruitment makes final determinations regarding the admission status of all applicants. Additional information, including submission guidelines, is available on the How to Apply (<https://art.wisc.edu/undergraduate/undergraduate-application>) page of the art department's website.

### CURRENT UW–MADISON STUDENTS

On-campus students should obtain a Professional Program Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). Complete and submit the application, as well as transcripts from all other colleges or universities attended, to Education Academic Services, Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. Applications cannot be processed without a complete academic record. (A transfer credit evaluation cannot be accepted in place of a transcript.) The program application must be signed by the undergraduate advisor in the Department of Art; call 608-262-1660 to schedule an appointment.

### TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Note that off-campus transfer students will be held to the UW–Madison admission GPA requirements. BFA candidates cannot transfer directly into the BFA program; instead, they will be admitted to campus as if pursuing a B.S.–Art degree (ART classification) and can apply for the BFA program once enrolled on campus. Transfer students are strongly encouraged to meet with the Department of Art advisor prior to coming to campus; call 608-262-1660 to schedule an appointment. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application.

Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) For more information on this rule, see this link (p. 1227).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

The bachelor of fine arts (BFA) degree program in art has four components:

- Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- Major* requirements permit in-depth studies of studio art. After taking courses in the Foundations area, students complete coursework in each of the four studio areas: 2D, 3D, 4D, and Graphics. BFA students are required to reach an advanced level in two studio disciplines.

### CRITERIA FOR ADMISSION

- Previous Art–B.S. degree program status.
- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Successful completion or concurrent enrollment in the following courses:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART 212	Drawing Methods & Concepts	3

One course from each of the following. See Requirements section for course options:

2D Studio

3D Studio

4D Studio

Graphics

- Minimum 3.0 Art studio course GPA.
- Portfolio review.
  - The portfolio must be submitted only after all prerequisite coursework has been completed or during the semester the courses will be completed. The portfolio must contain images of work completed in college art courses. Specific portfolio requirements will be announced prior to scheduled reviews, held near the end of the fall and/or spring semesters. Students not accepted into the BFA program will be encouraged to continue in the B.S.–Art program and will be allowed to present their portfolio for review one additional time.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year

as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art Foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the Foundations Program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<http://www.figs.wisc.edu/catalog>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<https://art.wisc.edu/media-disciplines/foundations>) is available on the departmental website.

## AESTHETICS REQUIREMENTS

The BFA program requires a total of 18 aesthetics credits, including four required courses. The remaining credits will be met by selecting from a list of aesthetics electives. Liberal studies coursework in fine arts and literature can also count as aesthetics electives. Additional courses may be approved by the art department advisor.

### REQUIRED AESTHETICS COURSES

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3
ART 208	Current Directions in Art (component of the Foundations Program)	3
Select two additional courses from the following:		8
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	
ART 438	Cultural Context of Graphic Design and Typography <sup>1</sup>	

<sup>1</sup> Only Graphic Design students may count ART 438 toward either aesthetics or studio requirements.

### AESTHETICS ELECTIVES

Select from the following to complete the required 18 credits. Liberal studies coursework in fine arts and literature can also double count as aesthetics electives.

**Elective Courses**

<b>Code</b>	<b>Title</b>	<b>Credits</b>			
AFRICAN/ FOLKLORE 210	The African Storyteller	3	ANTHRO 104	Cultural Anthropology and Human Diversity	3
AFRICAN 211	The African Autobiography	3	ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/LCA/ RELIG ST 370	Islam: Religion and Culture	4	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFRICAN/ FOLKLORE 411	African Poetry	3-4	ANTHRO/ AMER IND 314	Indians of North America	3
AFROAMER 151	Introduction to Contemporary Afro-American Society	3	ANTHRO 321	The Emergence of Human Culture	3
AFROAMER 155	They: Race in American Literature	3	ANTHRO 391	Bones for the Archaeologist	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3	ANTHRO 424	Historical Anthropology	3
AFROAMER 231	Introduction to Afro-American History	3	ANTHRO/LCA/ LINGUIS 430	Language and Culture	3-4
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	ART 236	Bascom Course	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3	All Art History courses		
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	ASIAN AM 101	Introduction to Asian American Studies	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	ASIAN AM 260	Topics in Asian American Culture	3
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2	CHICLA 210	Chicana/o and Latina/o Cultural Studies	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	CLASSICS 322	The Romans	3
AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3	COM ARTS 236	Bascom Course	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	COM ARTS 250	Survey of Contemporary Media	3
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3	COM ARTS 260	Communication and Human Behavior	3
AFROAMER 631	Colloquium in Afro-American History	3	COM ARTS 350	Introduction to Film	3
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	COM ARTS 351	Television Industries	3
AFROAMER 673	Selected Topics in Afro-American Society	3	COM ARTS 352	Film History to 1960	3
ANTHRO 102	Archaeology and the Prehistoric World	3	COM ARTS 354	Film Styles and Genres	3
			COM ARTS 355	Introduction to Media Production	4
			COM ARTS 357	History of the Animated Film	3
			COM ARTS 358	History of Documentary Film	3
			COM ARTS 450	Cultural History of Broadcasting	3
			COM ARTS 454	Critical Film Analysis	3
			COM ARTS 456	Russian and Soviet Film	3
			COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	3
			COMP LIT 202	Introduction to Modern and Contemporary Literature	3
			COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3
			COMP LIT 371	Literary Criticism	3-4

COMP LIT 681	Senior Honors Thesis	3	GEN&WS 101	Gender, Women, and Cultural Representation	3
COMP LIT 690	Proseminar	3	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
COMP LIT 691	Senior Thesis	2-3	GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
COMP LIT 692	Senior Thesis	3	HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
COMP LIT 771	Literary Criticism	3	HISTORY 102	American History, Civil War Era to the Present	4
COMP LIT 975	Seminar-Poetics and Literary Theory	3	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
COMP LIT 990	Research and Thesis	1-12	HISTORY 115	Medieval Europe 410-1500	4
DANCE 255	Movement Composition for the Performing and Visual Arts	2	HISTORY 119	The Making of Modern Europe 1500-1815	4
DANCE 265	Dance History I: Dance Art from the Renaissance to the 1950's	3	HISTORY 120	Europe and the Modern World 1815 to the Present	4
ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3	HISTORY 142	History of South Asia to the Present	3-4
ENGL 219	Shakespearean Drama	3	HISTORY 200	Historical Studies	3
ENGL 236	Bascom Course	3	HISTORY 201	The Historian's Craft	3-4
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3	HISTORY 242	Modern Latin America, 1898 to the Present	4
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ENGL 417	History of the English Language	3	HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
DS 221	Person and Environment Interactions	3	HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
DS 355	History of Fashion, 1400-Present	3	HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3	HISTORY 302	History of American Thought, 1859 to the Present	3-4
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3	HISTORY 303	A History of Greek Civilization	3-4
DS 512/ FOLKLORE DS 512	Material Culture Analysis: The Arts and the Consumer Society	3	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
FOLKLORE 100	Introduction to Folklore	3	HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	2	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
FOLKLORE/ AFRICAN 210	The African Storyteller	3	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
FOLKLORE 220	The Folk Tale	3	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
FOLKLORE 230	Introduction to American Folklore	3	HISTORY 351	Seventeenth-Century Europe	3-4
FOLKLORE 320	Folklore of Wisconsin	3	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
FOLKLORE/ THEATRE 326	Introduction to Asian Performance	3-4	HISTORY 359	History of Europe Since 1945	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4			
FOLKLORE/ MUSIC 401	Musical Cultures of the World	3			
FOLKLORE/ AFRICAN 411	African Poetry	3-4			
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3			
FOLKLORE 460	Folk Epics	3			
FOLKLORE/ DS 512 512	Material Culture Analysis: The Arts and the Consumer Society	3			
FOLKLORE/ DS 655 655	Comparative World Dress	3			



HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	LITTRANS 264	Survey of Japanese Literature in Translation	3
HISTORY 378	History of Africa Since 1870	3-4	LITTRANS 273	Urdu Prose Fiction in India and Pakistan in Translation	3
HISTORY/ ED POL 412	History of American Education	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
HISTORY 418	History of Russia	3-4	LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4	LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	LITTRANS/GERMAN/ JEWISH 279	Yiddish Literature and Culture in America	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4	LITTRANS 410	In Translation: Special Topics in Italian Literature	3
HISTORY/ECON 466	The American Economy Since 1865	3-4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
HISTORY 500	Reading Seminar in History	3	JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	3
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4	JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3
HISTORY/ JOURN 560	History of Mass Communication	4	JOURN 201	Introduction to Mass Communication	4
HISTORY/HIST SCI/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3	JOURN/ HISTORY 560	History of Mass Communication	4
HISTORY 600	Advanced Seminar in History	3	JOURN 561	Mass Communication and Society	4
HISTORY 680	Honors Thesis Colloquium	2	MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 681	Senior Honors Thesis	1-3	MEDIEVAL/ HISTORY/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY 682	Senior Honors Thesis	1-3	MEDIEVAL/ HIST SCI 322	Ancient and Medieval Science	3
HISTORY 690	Thesis Colloquium	2	MEDIEVAL/ SCAND ST 408	Old Norse	3
HISTORY 691	Senior Thesis	1-3	MEDIEVAL/HIST SCI/ HISTORY/MED HIST/ S&A PHM 562	Byzantine Medicine and Pharmacy	3
HISTORY 692	Senior Thesis	1-3	MEDIEVAL/ GERMAN 651	Introduction to Middle High German	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3	MEDIEVAL/ ITALIAN 660	Dante's Divina Commedia	3
ILS 202	Western Culture: Science, Technology, Philosophy II	3	MEDIEVAL/ FRENCH 703	La Litterature Francaise du XIV Et du XV Siecle	3
ILS 204	Western Culture: Literature and the Arts II	3-4	MUSIC 101	The Musical Experience	3
ILS 205	Western Culture: Political, Economic, and Social Thought I	3	MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	2
ILS 206	Western Culture: Political, Economic, and Social Thought II	3	MUSIC 105	Opera	3
ILS 251	Contemporary Physical Sciences	3	MUSIC 106	The Symphony	3
LINGUIS 101	Human Language	3	MUSIC 113	Music in Performance	1
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3	MUSIC 211	Survey of the History of Western Music	3
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3	PHILOS 101	Introduction to Philosophy	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4			
LITTRANS 236	Bascom Course-In Translation	3			
LITTRANS 240	Soviet Literature in Translation	3-4			
LITTRANS/ MEDIEVAL/ RELIG ST 253	Literature in Translation: Dante's Divine Comedy	3			
LITTRANS 262	Survey of Chinese Literature in Translation	3			

PHILOS 201	Introduction to Philosophy for Juniors and Seniors	3-4
PHILOS 253	Philosophy of the Arts	3-4
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS 430	History of Ancient Philosophy	3-4
PHILOS 432	History of Modern Philosophy	3-4
PHILOS 553	Aesthetics	3
PHYSICS 109	Physics in the Arts	3
RELIG ST 361	Early Christian Literature: Pauline Christianity	3
RELIG ST/AFRICAN/LCA 370	Islam: Religion and Culture	4
RELIG ST/LCA 444	Introduction to Sufism (Islamic Mysticism)	3
SOC 125	American Society: How It Really Works	3-4
THEATRE 327	History of Costume for the Stage	3

## MAJOR REQUIREMENTS

The requirements listed here are effective for students admitted to the Art or BFA program effective summer, 2016. Students admitted prior to this time can find their major requirements listed in previous editions of the *Undergraduate Catalog* and on their DARS reports.

**Bachelor of Fine Arts (BFA) Program:** Complete a minimum of 72 studio credits, including the specific coursework below. The BFA degree requires 126 total credits. Admission to the BFA program requires the completion of (or concurrent enrollment in) the ART 102, ART 104, ART 107, ART 108, ART 208, ART 212, and one course in each of the 2D, 3D, 4D and graphics areas. Students must have a 3.0 GPA in their studio coursework to be considered for the BFA program and have attained a minimum of sophomore standing. Successful participation in a portfolio review is also part of the selection process. Application may be made during the semester that the required courses will be completed. See How to Get In (p. 1268) for details about the application process.

**Major residency requirement.** The BFA program requires that at least 36 credits of major studio coursework be completed in residence at UW–Madison.

Art and BFA degree students have priority access to studio courses. Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

### REQUIRED STUDIO FOUNDATIONS COURSES

Complete the following:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

### REQUIRED STUDIO BREADTH COURSES

Select one course in each of the 2D, 3D, 4D, and Graphics areas. Students will also take ART 508 Colloquium in Art at least once and complete a 500-level or 600-level art studio course in at least two disciplines. BFA

candidates are required to participate in an exhibit and concurrently enroll in a capstone course.

#### 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4

#### 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4

#### 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

#### Graphics

Select one of the following:

Code	Title	Credits
ART 306	Relief Printmaking	3-4
ART 316	Lithography	4
ART 326	Etching	4
ART 336	Serigraphy	3-4
ART 346	Basic Graphic Design	4
ART 348	Introduction to Digital Printmaking	4
ART 376	Photography	3-4
ART 446	Artists' Books	4

#### Art Colloquium

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

### Advanced Studio Requirement

Complete a 500-level or 600-level Art studio course in two disciplines. ART 508 Colloquium in Art, ART 608 Interdisciplinary Critique in the Visual Arts, and ART 699 Independent Study will **not** fulfill this requirement.

### Exhibit Participation

BFA students must participate at least once in the department-sponsored exhibit, held in the spring semester. Requires concurrent enrollment in the professional practices/capstone course.

### Professional Practices/Capstone Course

BFA students must enroll in this course during the required semester of participation in the department-sponsored exhibit. Currently, offered as ART 448 section 10; a unique course number will be forthcoming.

## ELECTIVE STUDIO COURSES

Select elective studio courses (<http://guide.wisc.edu/courses/art>) to reach the minimum of 72 credits.

## AREAS OF CONCENTRATION

Although a specific emphasis is not required, students may wish to develop an area of interest within the requirements of the BFA program. Concentrations in graphic design, multi-media, 2D studio, 3D studio, and printmaking are some of the available options (<https://art.wisc.edu/media-disciplines>) listed on the Art department's website.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

These requirements are based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 3.0 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 3.0 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding ART 236 Bascom Course and ART 338 Service Learning in Art).
- Major Residency: Students must complete at least 36 major credits while enrolled in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 126 credits are required for graduation in the Art–BFA degree program.

### DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. To expose, broaden, and challenge students' understanding of past and present art production and provide knowledge of historical, thematic, critical and theoretical issues.
2. To contextualize studio assignments and expand their verbal and visual vocabulary, supporting the development of critical thinking and writing skills.
3. To learn the fundamental elements of art through investigation of formal, technical and conceptual issues and to increase skills in researching and creative problem solving.
4. To introduce students in the Bachelor of Science in Art and Bachelor of Fine Arts Degree Programs to art-making in four areas of practice, including two-dimensional, three-dimensional, graphic art, and interactive art. To broaden student understanding of the concepts and practices distinct to each area of discipline.

- To facilitate a peer community among a like-minded and diverse cohort of students.
- To facilitate advanced level competencies in at least one discipline for BS-Art majors and at least two disciplines for BFA majors.
- To develop a skill set through professional practice experience in the context of an undergraduate art curriculum.

## ADVISING AND CAREERS

### ADVISING

#### ART DEPARTMENT ADVISING

Prospective off-campus and on-campus B.S.–Art and BFA–Art majors will meet with the undergraduate art program advisors, Julie Ganser, [julie.ganser@wisc.edu](mailto:julie.ganser@wisc.edu), ([julie.ganser@wisc.edu](mailto:julie.ganser@wisc.edu)) and Branden Martz, [branden.martz@wisc.edu](mailto:branden.martz@wisc.edu), ([branden.martz@wisc.edu](mailto:branden.martz@wisc.edu)) located at 6241 Humanities Building, 455 North Park Street. Appointments can be made by calling 608-262-1660. Students are also strongly encouraged to confer with an Education Academic Services advisor on a regular basis, see below.

#### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

#### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

#### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

#### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional

and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.

- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website. (<http://www.education.wisc.edu/art>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## STUDIO ART, CERTIFICATE

The certificate in studio art allows students from across campus, regardless of their major or degree program, to engage in a structured, meaningful art studio experience. The certificate was designed for students who may not have professional ambitions in the arts, but still have an interest in a special discipline and want to develop their talents. The certificate does not require previous coursework in art.

The program provides a course of study in five focus areas: 2D, 3D, 4D (time-based), Graphic Design, or Photography. Students select one of these options and complete the courses required of this area of study. For each option, certificate students complete one course focusing on the historical context of art, two courses that provide a foundation for their chosen area, and two related electives that allow for the exploration and development of their skills.

This certificate may also appeal to students who have already completed a bachelor's degree in art, but now want to complete an emphasis in a different discipline, such as graphic design. In these instances, the

student will work closely with an advisor in the Department of Art to substitute higher level courses for the foundational studio courses.

## HOW TO GET IN

### DECLARATION PROCESS

Students intending to complete the art studio certificate may find the declaration form on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page. The declaration for this certificate program can be submitted at any time during the academic year.

### ELIGIBILITY

Undergraduate students in good academic standing, with a cumulative GPA of 2.50 or higher, who are not participating in the Art-B.S., Art Education, or Art-BFA degree programs, may declare this certificate. University Special students are also eligible to complete this certificate.

## REQUIREMENTS

The studio art certificate may be completed by any UW-Madison undergraduate student who is not a declared art major.

Select a course of study in one of five focus areas: 2D, 3D, 4D (time-based), Graphic Design, or Photography, and complete the required courses. For each option, certificate students complete one course focusing on the historical context of art, two courses that provide a foundation for their chosen area, and two related electives that allow for the exploration and development of their skills.

The certificate requires a total of 17–18 credits, depending on the selected area. It is possible to complete the certificate in three semesters, making it a viable option for most students, including transfers.

### HISTORICAL CONTEXT OF ART/DESIGN

Students in all certificate focus areas must complete **one** of the following:

Code	Title	Credits
ART 100	Introduction to Art	3
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART 438	Cultural Context of Graphic Design and Typography <sup>1</sup>	4
ART HIST 206	Survey of Photography: 1839 to 1989	3-4

<sup>1</sup> This course may count toward either the historical context requirement or toward the studio requirements of the focus area, but not both.

## FOCUS AREAS

### FOCUS ONE: PAINTING, DRAWING, PRINTMAKING

Ideal for the novice artist, as well as for students who want to develop previous skill in the creation of two-dimensional art. Students interested in pursuing this focus area can find more information about painting (<https://art.wisc.edu/media-disciplines/drawing-painting>), drawing, (<https://art.wisc.edu/media-disciplines/drawing-painting>) and

printmaking (<http://art.wisc.edu/art/academics/media/printmaking>) on the art department's website.

### Painting, Drawing, Printmaking Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete two of the following:		
ART 112	Drawing I	3
ART 212	Drawing Methods & Concepts (preferred)	3
or ART 102	Two-Dimensional Design	
<b>Development</b>		
Complete two courses. Select two courses from Category A or one from Category A and one from Category B.		
Category A		
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 306	Relief Printmaking	3-4
ART 316	Lithography	4
ART 326	Etching	4
ART 336	Serigraphy	3-4
ART 348	Introduction to Digital Printmaking	4
ART 448	Special Topics (2D or printmaking topics)	1-4
Category B (prerequisites apply to these courses)		
ART 322	Intermediate Painting I	4
ART 332	Life Drawing II	4
ART 342	Watercolor II	4
ART 446	Artists' Books	4
ART 452	Intermediate Painting: New Figuration I	4
ART 506	Advanced Relief Printmaking	4
ART 516	Advanced Lithography	2-3
ART 526	Advanced Etching/Intaglio	4
ART 536	Advanced Serigraphy	4
ART 636	Computer Augmented Printmaking	4

### FOCUS TWO: GRAPHIC DESIGN

Art/design experience is highly recommended for students wishing to complete the graphic design focus area. Interested students can find more information about graphic design and typography (<https://art.wisc.edu/media-disciplines/graphic-design>), book arts/letterpress (<https://art.wisc.edu/media-disciplines/printmaking>), and comics (<https://art.wisc.edu/media-disciplines/drawing-painting>) on the art department's website.

#### Graphic Design Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 102	Two-Dimensional Design	3
or ART 107	Introduction to Digital Forms	
ART 346	Basic Graphic Design	4

#### Development

Complete two courses. Select two courses from Category A or one from Category A and one from Category B. All courses beyond ART 346 require the consent of instructor. Prerequisites apply.

##### Category A

ART 438	Cultural Context of Graphic Design and Typography <sup>1</sup>	4
ART 356	Intermediate Typography	4
ART 458	Graphic Design for Branding and Identity	4
ART 463	Information Graphics	4
ART 465	Graphic Design for Packaging	4
ART 467	Graphic Design for Posters	4

##### Category B

ART 546	Graphic Design for Publications	4
ART 556	Graphic Design for Interactive Media	4
ART 560	Graphic Design Senior Thesis Project and Exhibition	4
ART 565	Typeface Design	4
ART 568	Motion Typography	4

<sup>1</sup> This course may count toward either the historical context requirement or toward the studio requirements of the focus area, but not both.

Note: The graphic design focus of this certificate is not intended to fully prepare individuals for a career in the field. Those wanting to pursue graphic design as a future profession should prepare by completing design courses as part of an art degree program—either the B.S.–Art (p. 1261) or BFA–Art. (p. 1267)

### FOCUS THREE: 3D FORMS

Ideal for the novice artist, as well as for students who want to develop previous skill in the creation of three-dimensional art. Students interested in pursuing this focus area can find more information about ceramics (<https://art.wisc.edu/media-disciplines/3d>), glass and neon (<https://art.wisc.edu/media-disciplines/3d>), metals/metalsmithing (<https://art.wisc.edu/media-disciplines/3d>), sculpture/installations (<https://art.wisc.edu/media-disciplines/3d>), and wood (<https://art.wisc.edu/media-disciplines/3d>) on the art department's website.

#### 3D Forms Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 104	Three-Dimensional Design	3
ART 214	Sculpture I	4
<b>Development</b>		
Complete two courses. Select two courses from Category A or one from Category A and one from Category B.		
Category A		
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 314	Sculpture II	4
ART 334	Wood Working	3-4

ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4
Category B (prerequisites apply to these courses)		
ART 324	Ceramics II	4
ART 344	Art Metal II	4
ART 414	Art Foundry	3
ART 454	Neon: Light as Sculpture	4
ART 514	Advanced Sculpture Workshop 1	4
ART 521	Installations and Environments	4
ART 534	Advanced Wood Working	4
ART 544	Advanced Art Metal I	4
ART 548	Special Topics: Advanced Level (art metals)	1-4
ART 554	Advanced Glassworking	4
ART 614	Advanced Sculpture Workshop 2	3-4

### FOCUS FOUR: 4D-DIGITAL, TIME-BASED, PERFORMATIVE OR SOCIAL PRACTICE

Ideal for the novice artist, as well as for students who want to develop previous skill with new art genres. Students interested in pursuing this focus area can find more information about digital media and animation (<https://art.wisc.edu/media-disciplines/4d>), (<https://art.wisc.edu/media-disciplines/4d>) or performance, video, or social practice (<https://art.wisc.edu/media-disciplines/4d>) on the art department's website.

#### 4D-Digital, Time-based, Performative or Social Practice Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete two of the following:		
ART 107	Introduction to Digital Forms	3
ART 318	Introduction to Video, Performance & Installation Art	4
or ART 338	Service Learning in Art	
<b>Development</b>		
Complete two courses. Select two courses from Category A or one from Category A and one from Category B.		
Category A		
ART 309	Digital Art and Code	4
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 511	Art Performance	3-4
ART 518	Artist's Video	4
ART 531	Screen Performance	3-4
Category B (prerequisites apply to these courses)		
ART 528	Digital Interactive Studio	4
ART 529	3D Digital Studio II	4
ART 570	Advanced Topics in 4D Art	3-4
ART 618	Advanced Artists' Video	4
ART 660	Art and Technology	4

### FOCUS FIVE: PHOTOGRAPHY (FILM AND DIGITAL)

Ideal for the novice artist, as well as for students who want to develop previous skill with photography. Students interested in pursuing this focus area can find more information about photography (<https://art.wisc.edu/media-disciplines/printmaking>) on the art department's website. ART HIST 206 Survey of Photography: 1839 to 1989 is highly recommended as the historical context course.

#### Photography Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 176	Digital Photography for Non-Art Majors	4
ART 376	Photography	3-4
<b>Development</b>		
Complete two of the following:		
ART 476	Intermediate Photography	4
ART 448	Special Topics (photography topics only in ART 448 and 548)	1-4
or ART 548	Special Topics: Advanced Level	
ART 576	Advanced Photography	4

### PROGRESS AND COMPLETION REQUIREMENTS

A minimum cumulative GPA of 2.5 must be achieved and maintained across all certificate course work in order to remain in, and successfully complete the certificate. All courses required by the certificate must be taken for a grade; none may be taken on a pass/fail, credit/no credit basis or as an auditor.

At least 12 of the required credits must be completed in residence in the UW-Madison Department of Art. Courses taken in a study abroad program sponsored by UW-Madison do not count toward this residency requirement.

### VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements have been completed and (2) posts this information on the student's transcript.

### PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website. (<http://www.education.wisc.edu/art>)

### CURRICULUM AND INSTRUCTION

The Department of Curriculum and Instruction is one of the premier research and teaching departments devoted to understanding the complex world of teaching, learning, curriculum, and policy. Faculty

pursue a diverse array of research combining experience in schools with expertise drawn from a range of disciplinary fields. This world-class research is the foundation of its work preparing future teachers and the next generation of educational researchers.

## DEGREES/MAJORS/CERTIFICATES

Undergraduate programs are offered in the areas listed below. Upon successful completion of their program of study, candidates are certified and eligible for a Wisconsin teaching license obtained through the Wisconsin Department of Public Instruction.

**Note:** Students at UW–Madison become certified to teach middle and high school **English, Mathematics, Science and Social Studies** subjects only through graduate-level coursework, not as undergraduates. Information about the master's degree program is available at [uwteach.org](http://www.uwteach.org) (<http://www.uwteach.org>) and the Curriculum and Instruction website (<https://ci.education.wisc.edu/ci/academics/degree-options-certification-programs/wisconsin-masters-in-teaching>). Science certification areas include Biology, Chemistry, Earth and Space Science, Environmental Studies, Physics, and Broad Field Science. UW–Madison offers certification in the Social Studies areas of Economics, Geography, History, Political Science, Psychology, Sociology and Broad Field Social Studies.

- Biology, Minor (p. 1280)
- Chemistry, Minor (p. 1282)
- Chinese, BSE (p. 1283)
- Communication Sciences and Disorders, BSE (p. 1295)
- Earth Science, Minor (p. 1301)
- Economics, Minor (p. 1302)
- Elementary Education, BSE (p. 1302)
- English Language Arts, Minor (p. 1318)
- English, Minor (p. 1320)
- French, BSE (p. 1321)
- French, SED Minor (p. 1334)
- Geography, Minor (p. 1334)
- German, BSE (p. 1336)
- German, SED Minor (p. 1349)
- History, Minor (p. 1349)
- Italian, BSE (p. 1354)
- Italian, SED Minor (p. 1366)
- Japanese, BSE (p. 1367)
- Latin, BSE (p. 1379)
- Latin, SED Minor (p. 1391)
- Mathematics Specialized, Minor (p. 1391)
- Mathematics and Science Dual, Minor (p. 1392)
- Mathematics, Minor (p. 1394)
- Physics, Minor (p. 1394)
- Political Science, Minor (p. 1395)
- Portuguese, BSE (p. 1397)
- Portuguese, SED Minor (p. 1410)
- Psychology, Minor (p. 1411)
- Science Specialized, Minor (p. 1411)
- Social Studies, Minor (p. 1411)
- Sociology, Minor (p. 1417)

- Spanish, BSE (p. 1419)
- Spanish, SED Minor (p. 1432)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Curriculum and Instruction can be found on the department's website. (<http://ci.education.wisc.edu>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## BIOLOGY, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with a biology undergraduate advisor (<http://biologymajor.wisc.edu/advising>) to discuss course selection and other issues related to this field of study. The Biology Major website (<http://biologymajor.wisc.edu>) is also a good resource, providing information about areas of study within biology and upcoming biology-related activities on campus. Biology is offered as a major in both the College of Letters & Science and the College of Agricultural and Life Sciences.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The biology minor requires a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all biology minor coursework taken on the UW–Madison campus. Biocore sequence coursework may also be used to meet these requirements; consult with an advisor in Education Academic Services.

Discipline-related course work is also required, but not calculated into the minor credits or gpa.

## REQUIRED DISCIPLINE-RELATED COURSES

Code	Title	Credits
Select a minimum of 6 credits in Mathematics and/or Statistics, college level, excluding Mathematics 120-132		
Select one of the following:		5-10



CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Select one of the following:		8-10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	

## MINOR REQUIREMENTS

### INTRODUCTORY BIOLOGY. SELECT ONE OF THE FOLLOWING OPTIONS:

Code	Title	Credits
Option 1: <sup>1</sup>		
BIOLOGY/ ZOOLOGY 101	Animal Biology	3
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory	2
BIOLOGY/ BOTANY 130	General Botany	5
Option 2:		
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5

<sup>1</sup> Students earning Advanced Placement (AP) or International Baccalaureate (IB) Biology scores of 4 or above are given credit for BIOLOGY/BOTANY/ZOOLOGY 151 at UW–Madison. This course fulfills the entire 151-152 sequence. Students taking BIOLOGY/BOTANY/ZOOLOGY 151 coursework at UW–Madison or transfer it from another campus must complete both BIOLOGY/BOTANY/ZOOLOGY 151 and BIOLOGY/BOTANY/ZOOLOGY 152 to complete the 151/152 sequence.

## GENETICS

Code	Title	Credits
GENETICS 466	Principles of Genetics	3

## ELECTIVES

Complete biology elective coursework from the approved lists to reach a minimum of 24 credits. The courses must be numbered 300 and above and include at least one course from two of the following three areas: (1) Ecology, Evolution, Genetics, (2) Cell and Molecular Biology, and (3) Physiology. Additional courses may, with the consent of an advisor, be selected to meet the elective requirements.

### Area 1: Ecology/Evolution/Genetics

Code	Title	Credits
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae	3

BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 403	Field Collections and Identification <sup>1</sup>	1-4
BOTANY 422	Plant Geography	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
ZOOLOGY/ ENTOM 302	Introduction to Entomology <sup>1</sup>	4
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY/ENTOM/ M M & I/PATH- BIO 350	Parasitology	3
ZOOLOGY/M M & I/ PATH-BIO 351	Parasitology Laboratory <sup>1</sup>	2
ZOOLOGY/ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY/ANTHRO/ BOTANY 410	Evolutionary Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY/BOTANY/ F&W ECOL 460	General Ecology <sup>1</sup>	4
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2
ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
ZOOLOGY/AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin <sup>1</sup>	3
ZOOLOGY 525	Tropical Herpetology	1
ZOOLOGY/ ENTOM 530	Insect Behavior	3
ZOOLOGY/ GENETICS/ MD GENET 562	Human Cytogenetics	2
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
ENTOM 342	Insect Ecology	3
ENTOM 468	Studies in Field Entomology <sup>1</sup>	3

ENTOM/ ZOOLOGY 530	Insect Behavior	3
GENETICS/BOTANY/ HORT 561	Introductory Cytogenetics	2-3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS/ AN SCI 610	Quantitative Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
GENETICS/BOTANY/ MD GENET 629	Evolutionary Genetics	3
HORT/ AGRONOMY 501	Principles of Plant Breeding	3
HORT/BOTANY/ GENETICS 561	Introductory Cytogenetics	2-3
LAND ARC/ ENVIR ST 361	Wetlands Ecology <sup>1</sup>	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

<sup>1</sup> Courses are lab or field courses.

### Area 2: Cell and Molecular Biology

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO/M M & I/ PATH-BIO 528	Immunology	3
MICROBIO/ GENETICS 607	Advanced Microbial Genetics	3
MICROBIO/ ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
BOTANY/GENETICS/ HORT 561	Introductory Cytogenetics	2-3
BOTANY 563	Phylogenetic Analysis of Molecular Data	3
GENETICS/ MD GENET/ ZOOLOGY 562	Human Cytogenetics	2
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 570	Cell Biology	3

### Area 3: Physiology

Code	Title	Credits
BOTANY 500	Plant Physiology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

PHYSIOL 335	Physiology <sup>1</sup>	5
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<sup>1</sup> Courses are lab or field courses.

## CHEMISTRY, MINOR

The chemistry minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Chemistry is housed in the College of Letters & Science. Students may wish to consult with a chemistry undergraduate advisor (<http://www.chem.wisc.edu/content/undergraduate-advising>) to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

### CHEMISTRY MINOR PREREQUISITES

Note that students must complete prerequisite coursework before enrolling in some courses required for the minor. For example, MATH 222 Calculus and Analytic Geometry 2 and PHYSICS 201 General Physics or PHYSICS 207 General Physics must be completed before taking CHEM 561 Physical Chemistry. Prerequisite coursework may be used to meet liberal studies requirements.

### CHEMISTRY MINOR REQUIREMENTS

A minimum cumulative grade point average of 2.75 is required, based on all chemistry minor coursework taken on the UW–Madison campus.

Complete at least 22 credits, including the following:

Code	Title	Credits
<b>Introductory Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
<b>Analytical Chemistry</b>		
Select one of the following:		4-5
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 116 & CHEM 115	Chemical Principles II and Chemical Principles I	
<b>Organic Chemistry</b>		
Select one of the following options:		7-8
Option 1:		

CHEM 341	Elementary Organic Chemistry	
CHEM 342	Elementary Organic Chemistry Laboratory	
BIOCHEM 501	Introduction to Biochemistry	
Option 2:		
CHEM 343	Introductory Organic Chemistry	
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Intermediate Organic Chemistry	
<b>Inorganic Chemistry</b>		<b>4</b>
CHEM 311	Chemistry Across the Periodic Table	
<b>Physical Chemistry</b>		<b>3</b>
CHEM 561	Physical Chemistry	
or CHEM 565	Biophysical Chemistry	
<b>Electives</b>		
Complete Chemistry electives to total 22 credits <sup>1</sup>		

<sup>1</sup> CHEM 346 Intermediate Organic Chemistry Laboratory is recommended. BIOCHEM 501 Introduction to Biochemistry, CIV ENGR 500 Water Chemistry, CBE 440 Chemical Engineering Materials, CBE 540 Polymer Science and Technology, are also recommended elective options.

## CHINESE, BSE

### WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admission to the program. The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;

- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a bachelor of science degree in education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1284)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for

application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System's Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

## APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of

qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and

- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review

committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PREREQUISITE COURSEWORK

Students must be at a fifth semester level of Chinese or demonstrate a proficiency level equivalent to E ASIAN 202 Fourth Semester Chinese in order to complete the major requirements. If not at that level, the following courses should be taken. Prerequisite courses do not count toward major credits.

Code	Title	Credits
E ASIAN 101	First Semester Chinese	6
E ASIAN 102	Second Semester Chinese	6
E ASIAN 201	Third Semester Chinese	6
E ASIAN 202	Fourth Semester Chinese	6

## MAJOR REQUIREMENTS

Complete a minimum of 36 credits. At least 15 credits of upper-level major coursework (courses numbered 220 and above) must be completed in residence at UW–Madison to meet the major residency requirement.

Code	Title	Credits
<b>Required Courses</b>		
E ASIAN 301	Fifth Semester Chinese	4
E ASIAN 302	Sixth Semester Chinese	4
E ASIAN 321	First Year Classical Chinese	4
E ASIAN 333	Chinese Conversation	3
E ASIAN 351	Survey of Chinese Literature	3
E ASIAN 352	Survey of Chinese Literature	3
E ASIAN 431	Introduction to Chinese Linguistics	3
HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
E Asian 251	Chinese Civilization, or approved substitute	3

**Select from the following to reach 36 credits:**

E ASIAN 401	Seventh Semester Chinese
E ASIAN 402	Eighth Semester Chinese
E ASIAN 432	Introduction to Chinese Linguistics

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with

the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

## PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442	Student Teaching in World Languages (K-8) <sup>2</sup>	6
or CURRIC 443	Student Teaching in World Languages (6-12)	
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	
<i>Other Courses</i>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	
<b>Semester 4</b>		
<i>Required Courses</i>		
CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

<sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field

experiences service area and may not necessarily be in the city of Madison.

- <sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.
- <sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)
- <sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional courses as necessary to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification



such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW-Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p.      ).

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language

on the ACTFL OPI scale as measured by two independent external evaluators.

2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### CHINESE EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Chinese, and with Professor Hongming Zhang, 1112 Van Hise Hall, 262-2004, hzhang6@facstaff.wisc.edu, regarding coursework in the major.

The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at

least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### **OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)**

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### **SCHOOL OF EDUCATION CAREER CENTER**

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of

resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and Asian Languages and Cultures (<http://alc.wisc.edu>) department websites.

## CERTIFICATION/LICENSURE

### **ADDITIONAL CERTIFICATION REQUIREMENTS**

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/>)

soe/pk-12-education/pathways-to-licensure) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3

BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

#### Content Test

Students completing professional education programs must take and pass an approved examination in their content area

prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

## Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre–Student Teaching Practicum

The pre–student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities,

assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre–student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an

informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.

- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.

- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.

- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## COMMUNICATION SCIENCES AND DISORDERS, BSE

### OVERVIEW

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech–language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to practice as licensed and/or certified clinicians in educational and medical/allied-health settings, assisting clients with communicative impairments arising from disease, trauma, predisposition, maladaptive learning, or unknown causes. Professional clinical practice follows completion of a master's degree in speech–language pathology, or a doctor of audiology degree, and involves evaluation and treatment based upon a firm theoretical understanding of normal processes of hearing, and of speech and language formulation, production, and perception.

Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., law, medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths (Speech–Language Pathologist (SLP) assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education. Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements for the major. Moreover, each program (L&S and Education) has its own general liberal studies requirements involving, for example, sciences, math, foreign language, social studies, and humanities. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech–language pathology and in audiology by the Council on Academic Accreditation of the American Speech–Language–Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

Students must consult with an undergraduate advisor in the Department of Communication Sciences and Disorders (1975 Willow Drive, [www.comdis.wisc.edu](http://www.comdis.wisc.edu)) as soon as a decision has been made to major in this field. Course sequencing in the major is not flexible—certain courses are prerequisites to others and many courses are offered only once a year. CS&D advising services are focused on students who need to declare the major or who have already declared CS&D and need advising in the major. Please visit the department's website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The School of Education's communication sciences and disorders program currently accepts students during both fall and spring semesters. Prospective applicants typically begin taking the three-course "gateway course" sequence (detailed below) as sophomores.

### ENTERING THE SCHOOL OF EDUCATION

#### ADMISSION TO THE SCHOOL OF EDUCATION AS A "PRE-PROFESSIONAL" STUDENT

New freshmen and transfer students interested in communication sciences and disorders are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in communication sciences and disorders receive the "pre-professional" classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1297)). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

#### TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a

subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

The communication sciences and disorders degree program currently accepts students during both fall and spring semesters. Requirements and selection criteria may be modified from one application/admission period to the next.

#### CRITERIA FOR PROGRAM ADMISSION

##### Eligibility for consideration requires:

- Fifty-four (54) or more transferable semester credits (junior standing) completed by the end of the semester prior to admission. Students can first apply during the semester that they will be completing 54 or more credits.
- A cumulative grade-point average of at least a 2.75 (on a 4.0 scale) based on all college-level coursework attempted (as modified by the Last 60 Credits Rule; see below). Grade-point averages are calculated from both Madison campus coursework and coursework taken at any other colleges or universities.<sup>1</sup>
- Completion of the "gateway courses," CS&D 201 Speech Science (3 cr), CS&D 202 Normal Aspects of Hearing (3 cr), and CS&D 240 Language Development in Children and Adolescents (3 cr). If any "gateway" courses were taken on another campus, then the first three Communication Sciences and Disorders courses taken at UW–Madison become the "gateway" courses.
- A minimum 3.0 GPA across CS&D 201, CS&D 202, and CS&D 240 the first time these courses are attempted. If any "gateway" course was taken on another campus, students must earn a minimum 3.0 GPA on the first three communication and sciences disorders courses taken at UW–Madison. Note that "gateway" courses may **not** be repeated for the purpose of raising the student's "gateway" course GPA.
- A cumulative GPA of at least a 3.0 on all major coursework completed to date, excluding CS&D 110 Introduction to Communicative Disorders.
- Minimum scores on the test submitted to meet the Basic Skills Requirement (see details below).
- Completed program application (see details below).

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.



### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

### APPLICATION PROCEDURES

- Submit completed program application form(s), transcripts, and all other related application materials specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page. Official transcripts from all other colleges or universities attended are required. Applications cannot be processed unless a complete academic record is presented for consideration.
- Complete the Basic Skills Requirement.
  - All prospective Communication Sciences & Disorders students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).

### CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on students prior to the start of in-classroom field work. Admitted applicants who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

Results of criminal background checks may be shared with other agencies when required by state code, or with a cooperating school or other agency in which the student has been assigned to complete field experiences. Criminal background checks may also be run on students by school districts. Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. Field site administrators have the right to determine the appropriateness of a student placement.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

The School of Education's bachelor of science degree in communication sciences and disorders is one path toward eventual clinical practice, though a graduate degree is required for licensure. Thus, students must plan on graduate studies if they intend to pursue Wisconsin State licensure. Not all students eligible for admission to the undergraduate degree program can be accepted to the master's degree program on this campus. Many students obtain their undergraduate degrees from UW–Madison and complete their master's degree and licensing requirements at another institution.

The School of Education undergraduate degree provides students with a conceptual background in the field of communication sciences and disorders and includes five categories of coursework:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major* coursework offers in-depth study of foundations for clinical practice.
- *Discipline-related* coursework supports the major coursework.
- *Education* coursework examines many aspects of the educational enterprise, including child development and learning, societal expectations of schools and instruction, and teaching methods.
- *Elective* coursework is taken to meet the minimum of 120 credits required for the degree.

The School of Education's bachelor of science degree in communication sciences and disorders is one path toward eventual clinical practice, though a graduate degree is required for licensure. Thus, students must plan on graduate studies if they intend to pursue Wisconsin State licensure. Not all students eligible for admission to the undergraduate degree program can be accepted to the master's degree program on this campus. Many students obtain their undergraduate degrees from UW–Madison and complete their master's degree and licensing requirements at another institution.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## MAJOR REQUIREMENTS

Complete all the courses listed below. At least 15 credits of upper level major coursework (courses number 300–699) must be taken in residence on the UW–Madison campus for graduation.

Students must complete the three "gateway" courses—CS&D 201, CS&D 202, and CS&D 240—to be eligible for admission. Prospective applicants typically begin taking the three-course "gateway" sequence as sophomores. A grade point average of 3.0 or better must also be earned across these three courses the first time these courses are attempted.

Code	Title	Credits
CS&D 201	Speech Science	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 371	Pre-Clinical Observation of Children and Adults	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3

## DISCIPLINE-RELATED COURSEWORK

The communication sciences and disorders program requires both major and related coursework. Related coursework is mandatory, but not considered part of the major or calculated into the major grade point average. This coursework may be used to satisfy Liberal Studies requirements, if appropriate.

Code	Title	Credits
<b>Required Course</b>		
RP & SE 300	Individuals with Disabilities	3
<b>Select a statistics course; the following are recommended:</b>		
STAT 301	Introduction to Statistical Methods	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
ED PSYCH 760	Statistical Methods Applied to Education I	

**Humanities** 3

Select one of the following:

ENGL 314	Structure of English
ENGL 316	English Language Variation in the U.S.
LINGUIS 101	Human Language
LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical

**Ethnic Studies** 3-4

Select one of the following:

ANTHRO 104	Cultural Anthropology and Human Diversity
ASIAN AM 101	Introduction to Asian American Studies
CHICLA 201	Introduction to Chicana/o and Latina/o Studies
SOC 134	Problems of American Racial and Ethnic Minorities
SOC/ ASIAN AM 220	Ethnic Movements in the United States

**Science** 3-4

Select one of the following:

ANTHRO 105	Principles of Biological Anthropology
PHYSICS 103	General Physics
PHYSICS 109	Physics in the Arts
GEN&WS 103	Women and Their Bodies in Health and Disease
BIOLOGY/ ZOOLOGY 101	Animal Biology

**EDUCATION COURSEWORK**

Code	Title	Credits
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**Development** 3

Select one of the following (minimum 3 credits):

ED PSYCH 320	Human Development in Infancy and Childhood
ED PSYCH 321	Human Development in Adolescence
PSYCH 460	Developmental Psychology (Effective fall, 2017, Psych 560 was changed to 460)

**Learning**

ED PSYCH 301	How People Learn (minimum 3 credits)	3
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**Educational Policy Studies**

ED POL 300	School and Society (minimum 3 credits)	3
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**Literacy, including Reading**

CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
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**Additional Education Coursework** 3

Select 3 credits in School of Education electives. Required School of Education courses may not be applied toward this requirement.

**ELECTIVE COURSEWORK**

Select additional coursework to reach the minimum of 120 credits.

**GPA AND OTHER GRADUATION REQUIREMENTS****GRADUATION REQUIREMENTS**

Requirements below are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level (300–699) major coursework
- 2.75 cumulative grade point average in all education coursework
- Major Residency. Degree candidates must complete at least 15 credits of upper-level major coursework (300–699) in residence on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Practicum work is considered part of the 30 credits.
- 40-Credit Rule. Students may not count more than 40 credits from one department within the 120 degree credits needed for graduation. For example, if 42 credits of coursework have been completed from the Department of Communication Sciences and Disorders, the student will need 122 credits to graduate. CS&D 110 does not count toward the 40 credits.
- 120 credits required for graduation.

**DEGREE AUDIT (DARS)**

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL INFORMATION REGARDING CERTIFICATION

The master's degree is required to be certified to work in a public school program in Wisconsin and most states. The major in communication sciences and disorders prepares graduates to function competently and independently in public school programs, hospitals, rehabilitation centers, birth-to-three programs, or clinics. The bachelor of science degree is earned in the School of Education, and the master's degree is earned in the Department of Communication Sciences and Disorders. Student teaching and other professional education courses will be taken while earning the bachelor's and master's degrees. Not all students who apply for admission can be accepted into the master's degree program.

For detailed information about the master's program, see the CS&D website (<http://www.comdis.wisc.edu>).

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Ability to successfully integrate subject knowledge and pedagogy knowledge flexibly in authentic situations through field experiences with secondary students under the supervision of highly qualified, experienced teachers and university supervisors.
2. Students will be prepared for recommendation for initial licensure in the state of Wisconsin and beyond in accordance with state standards.

## ADVISING AND CAREERS

### COMMUNICATION SCIENCES AND DISORDERS ADVISING

Students **must** consult with an undergraduate advisor in the Department of Communication Sciences and Disorders (1975 Willow Drive,

[www.comdis.wisc.edu](http://www.comdis.wisc.edu) (<http://www.comdis.wisc.edu>)) as soon as a decision has been made to major in this field. Course sequencing in the major is not flexible—certain courses are prerequisites to others and many courses are offered only once a year. CS&D advising services are focused on students who need to declare the major or who have already declared CS&D and need advising in the major. Please visit the department's website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions.

Students not yet admitted to the program should also consult with advising staff in Education Academic Services (EAS), see below.

## GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURL: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURL staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURL staff perform outreach, recruitment, and advising on behalf of the School. OURL staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURL works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURL staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's

applications. The *Prepare and Connect* section provides offers additional details.

- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) or Communication Sciences and Disorders (<https://csd.wisc.edu>) departmental websites.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## EARTH SCIENCE, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 24 credits from the following departments: Astronomy (<http://guide.wisc.edu/courses/astron>), Atmospheric and Oceanic Sciences ([http://guide.wisc.edu/courses/atm\\_ocrn](http://guide.wisc.edu/courses/atm_ocrn)), Geoscience (<http://guide.wisc.edu/courses/geosci>), and Geography (<http://guide.wisc.edu/courses/geog>). Only Geography courses designated as Physical Science may be used toward the minor requirements. At

least 10 credits of the 24 credits must be numbered 200 or above. A minimum 2.75 grade point average is required, based on all UW–Madison coursework included in this minor.

## ECONOMICS, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Economics is housed in the College of Letters & Science. Students may wish to consult with an economics undergraduate advisor to discuss course selection and other issues related to this field of study. Academic advising (<http://www.econ.wisc.edu/undergraduate-academic-advising.htm>) is available in Room 7238 of the Social Science Building. Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu). ([econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu))

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The economics minor requires a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all economics minor coursework taken on the UW–Madison campus.

Students completing the economics minor must complete at least one semester of calculus. Mathematics coursework may be applied toward the liberal studies requirement.

Code	Title	Credits
<b>Introduction to Microeconomics and Macroeconomics</b>		
Complete one of the following:		4-7
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Microeconomic Theory</b>		3-4
ECON 301 or ECON 311	Intermediate Microeconomic Theory or Intermediate Microeconomic Theory - Advanced Treatment	
<b>Intermediate Macroeconomic Theory</b>		3-4
ECON 302 or ECON 312	Intermediate Macroeconomic Theory or Intermediate Macroeconomic Theory - Advanced Treatment	
<b>Statistics</b>		
Select one of the following, or an approved substitute:		3-4
ECON 310	Statistics: Measurement in Economics (preferred)	
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	

STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
GEN BUS 303	Business Statistics

### Economics Elective

Select one of the following (330 or 464 are preferred):		3-4
ECON 330	Money and Banking	
ECON 464	International Trade and Finance	
ECON 410	Introductory Econometrics	
ECON 441	Analytical Public Finance	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON 508	Wealth and Income	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	
ECON 590	Tutorial in Research Project Design	
ECON 664	Advanced International Trade	
ECON 666	Issues in International Finance	

**If needed, additional ECON coursework to reach the minimum of 24 credits.**

## ELEMENTARY EDUCATION, BSE

The University of Wisconsin–Madison Elementary Education program prepares teachers who can foster high academic achievement in all students—particularly learners from diverse racial, cultural, linguistic, socioeconomic backgrounds and abilities. Teacher education students learn to recognize how their own background and experience shape their thinking and actions, to reflect on their practices, and to develop and adapt practices that serve the needs of their students.

Through their preparation, students gain awareness of how schools reflect both the strengths and inequities of our increasingly multicultural society and become more committed to advancing social justice and equity through their classroom practice and community interactions. They learn to welcome parents, caregivers, and community members into their classrooms as partners in the educational process. They integrate research-based practices in their teaching and, in doing so, acquire knowledge and skills that enable them to grow professionally throughout their teaching careers.

At UW–Madison, students preparing to teach in preschool, elementary, and middle schools engage in substantial supervised fieldwork (especially in diverse schools), community field experiences, self-examination of teaching practice, and development of multicultural classroom activities.

The Elementary Education program currently consists of four complementary program options:

- The **Early Childhood/English as a Second Language** option prepares teachers to work at the preschool and primary levels (approximately birth through age 8). Students are also certified in English as a Second Language at the Early Childhood level. Admitted students begin the four-semester professional sequence in the fall after admission.
- The **Middle Childhood–Early Adolescence/English as a Second Language** option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are also certified in English as a Second Language at the Middle Childhood–Early Adolescence levels. Admitted students currently begin the four-semester professional sequence in the spring after admission, although this will change in the near future.
- The **Middle Childhood–Early Adolescence/Special Education** option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). It emphasizes collaboration, with training in both Elementary and Special Education methodologies. This option focuses on inclusion and gaining a strong background in working with students across disability categories including learning disabilities, emotional/behavioral disabilities, and other high incidence disabilities. Students are certified in both Special Education and Elementary Education at the Middle Childhood–Early Adolescence levels. Admitted students begin the four-semester professional sequence in the fall following admission.
- The **Middle Childhood–Early Adolescence/Content Focused Minor** option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students complete a content area minor that may lead to licensing in that subject. Admitted students currently begin the four-semester professional sequence in the spring after admission, although this will change in the near future.

Course requirements will vary by option, so students should consult often with an Education advisor. All options lead to a Bachelor of Science degree in Education. Formal definitions of Early Childhood and Middle Childhood–Early Adolescence levels will be determined by each school district based on the organizational structure of its schools and the philosophy and needs of the district.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the program once a year, effective in the fall. Selection is made the previous spring. Currently, two of the four Elementary Education options—Early Childhood/ESL and the Middle Childhood through Early Adolescence/Special Education Dual Major—begin the four-semester professional sequence in the subsequent fall semester. Students in the Middle Childhood through Early Adolescence/English as a Second Language option and Middle Childhood through Early Adolescence/Content Focus option currently begin the four-semester professional sequence in the spring semester; it is anticipated that this will change in the near future.

## ENTERING THE SCHOOL OF EDUCATION NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in elementary education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in elementary education receive the “pre-professional” classification of PRE.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1304)). It is not necessary to be a “pre-professional” student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## APPLICATION AND ADMISSION

Resources limit the number of students who can be served by UW–Madison teacher education programs; thus, admission to the Elementary Education program is limited and may be competitive. Obtaining or exceeding the minimum criteria for eligibility does not guarantee admission.

The Elementary Education program faculty selects candidates based on a variety of criteria. Each option has its own selection committee and only reviews applications to that option. In particular they seek individuals who can demonstrate academic competence, multicultural and interpersonal competence, and reflective competence.

### PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be eligible for admission to the professional program, applicants must:

- determine which of the four program options are of interest. Applicants may apply to a maximum of two options.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.
- successfully complete at least 40 transferable college-level credits by the end of the fall semester before application.
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- earn either
  - a minimum 2.5 grade point average (GPA) on a 4.0 scale on all transferable college-level coursework attempted<sup>1</sup>, *OR*
  - minimum scores to meet the Basic Skills requirement, see above.

Applicants will be considered who have met either the minimum GPA or minimum basic skills test scores in all areas, but will not be eligible if both GPA and basic skills test scores are below the minimum. Students must take all three sections of the Basic Skills tests (reading, writing, mathematics) to be eligible for consideration.

- complete RP & SE 300 Individuals with Disabilities by the end of the summer before beginning the program if applying to the MC–EA/Special Education Dual Major option.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

### PROGRAM ADMISSION SELECTION CRITERIA

The Elementary Education program admissions procedures are intended to result in an academically qualified student body that is diverse in terms of both academic strengths and life experiences and has a commitment to providing the best possible education to elementary and middle school students. Having students with diverse life experiences, backgrounds and attitudes is critical if faculty are to prepare students to teach in schools that themselves have diverse enrollments. Faculty will accept only those students judged to have the potential to be successful in the academically challenging Elementary Education Program. In making admissions decisions, no factor will outweigh judgment that a particular applicant's credentials, taken as a whole, represent unacceptably high academic risk.

#### The Admissions Committee will take the following into consideration when making admissions decisions:

##### Academic Competence

The Mission Statement of the Elementary Education Area points to the role that our graduates have in creating academically rigorous classrooms that lead to high academic achievement in all students. For elementary and middle schools to promote academic achievement, elementary and middle school teachers must have demonstrated high levels of success in core disciplines throughout their university studies. Therefore, program faculty expect that students admitted to the program will have demonstrated high levels of academic preparation.

##### Multicultural and Interpersonal Competencies

The Elementary Education program's mission is to prepare teachers who are able to promote academic achievement in all elementary-school and middle-school students. This includes those from diverse races, cultures, language backgrounds, family forms, and



sexual orientations, as well as those from diverse economic, gender, and ability groups. The program faculty seek prospective teachers who will demonstrate both commitment to this mission and the prospect of contributing to it. The Admissions Committee will therefore examine the materials from each candidate for evidence of such commitment and prospect.

### Reflective Competence

To have performed at high academic levels or to have had diverse life experiences is not adequate for admissions purposes unless these are accompanied by evidence that the applicant has been able to reflect on and learn from them. Demonstration of reflective competence is important as it likely contributes to one's interpersonal skills as well as to the qualities such as integrity, social awareness, and cultural sensitiveness that are qualities of a well-rounded human being who will be an excellent elementary or middle school teacher. The ability to reflect on one's life experiences is one factor that will allow the Admissions Committee to look for evidence that our students will be reflective practitioners who evaluate the effects of their assumptions, choices, and actions on others (students, parents, and other professionals in the learning community) and who will actively seek out opportunities to grow professionally.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

Students of Elementary Education:

- Are exposed to a broad range of academic disciplines through *liberal studies* course work. The university-wide *General Education* requirements also encourage this breadth of study.
- Examine schools' relationship to society, the development of children and adolescents, and the processes of learning in their *education course work*.
- Study teaching methods and gain experience in schools through supervised field placements during their four-semester *professional sequence*.
- Complete *elective* coursework to reach the minimum of 120 credits required for the degree.

*Practicum* experiences provide a school-based setting for students to develop their professional and classroom skills. These experiences generally begin a few weeks after the start of the semester and are approximately nine weeks in length. Students will usually spend three half-days at their assigned schools. Concurrent registration in the methods courses provides students with an opportunity to learn about, and then apply, teaching techniques in a classroom.

The *full-semester student teaching assignment* is the capstone experience of the professional sequence. Through it students expand upon the activities, responsibilities and expectations encountered during the practicum experiences. Student teachers will function as regular staff members in their assigned schools and also attend a seminar on campus one afternoon each week. Student teachers are required to follow the school day, school calendar, vacation days and policies of the school where they work.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined**

above, including ethnic studies, humanities/literature, social studies, and science. Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PROGRAM OPTIONS - SELECT ONE

### OPTION 1—EARLY CHILDHOOD/ENGLISH AS A SECOND LANGUAGE

The Early Childhood/English as a Second Language option prepares teachers to work at the preschool and primary levels (approximately birth through age 8). Students are also certified in English as a Second Language at the Early Childhood level. Admitted students begin the four-semester professional sequence in the fall after admission.

### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

### Environmental Education courses

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

### Mathematics for Elementary Teachers

Code	Title	Credits
MATH 130	Mathematics for Teaching: Numbers and Operations	3

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this course. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about this course is available on the math department website.

### Professional Sequence

Admitted students complete a four-semester sequence of professional courses beginning in the fall semester after program admission. Each semester of the sequence must be followed sequentially and taken in

consecutive semesters. Class schedules for the sequence are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 660	Early Childhood Education	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
CURRIC 663	Learning Environments for Initial Education Programs	3
CURRIC 328	Artistic Lives of Children	3
CURRIC 325	Educating Young English Learners	3
CURRIC 363	Practicum in Early Childhood Education in Kindergarten	3
<b>Semester 2</b>		
CURRIC 314	Becoming Literate in and out of Schools	3
CURRIC 370	Teaching Mathematics	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
CURRIC 326	Language Use and Acquisition in Early Childhood	3
CURRIC 367	Elementary Teaching Practicum II	3
<b>Semester 3</b>		
CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
CURRIC 315	Reading and Writing Across the Curriculum in Early Childhood	3
CURRIC 327	Methods of Teaching Young English Learners	3
CURRIC 373	Elementary Teaching Practicum III	3
<b>Semester 4</b>		
CURRIC 468	Early Childhood/English as a Second Language Student Teaching	10
CURRIC 463	Seminar in Pre-Kindergarten Through Middle School Teaching	2

### Related Courses

These related courses focus on children and families and are recommended (not required) for students interested in early childhood education.

<b>Related Courses</b>		
Code	Title	Credits
CNSR SCI 475	Family Economics	3
HDFS 362	Development of the Young Child	3
HDFS 464	Play-Development and Role Across the Lifespan	3
HDFS 469	Family and Community Influences on the Young Child	3
HDFS 471	Parent - Child Relations	3
HDFS 474	Racial Ethnic Families in the U.S.	3
HDFS 478	Development of Black Children and Their Families: Research and Policy	3
PHILOS 104	Special Topics in Philosophy for Freshmen	3
PSYCH 311	Issues in Psychology	1-4

SOC 120	Marriage and Family	3-4
PSYCH 460	Developmental Psychology (formerly numbered 560)	3-4
SOC WORK 206	Introduction to Social Policy	4

### Elective Coursework

Select additional coursework, if needed, to complete the minimum of 120 credits.

### OPTION 2—MIDDLE CHILDHOOD—EARLY ADOLESCENCE/ ENGLISH AS A SECOND LANGUAGE

The Middle Childhood–Early Adolescence/English as a Second Language option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are also certified in English as a Second Language at the Middle Childhood–Early Adolescence levels. Admitted students currently begin the four-semester professional sequence in the spring after admission, although this will change in the near future.

### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

#### Environmental Education courses

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3

SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Mathematics for Elementary Teachers

Code	Title	Credits
MATH 130	Mathematics for Teaching: Numbers and Operations	3
MATH 131	Mathematics for Teaching: Geometry and Measurement	3
MATH 132	Problem Solving in Algebra, Probability and Statistics	3

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

### Educational Arts or Educational Technology

Select one of the following. Additional courses can be considered; consult with an advisor in Education Academic Services.

#### Educational Arts or Educational Technology courses

Code	Title	Credits
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
ART 448	Special Topics (Topic requires permission)	1-4
ART ED/CURRIC 322	Information Design for Visual Learning	3
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 200	Introduction to Digital Communication	3
COM ARTS 325	Media and Human Behavior	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	3
COMP SCI 250	Digital Society: The Impact of Computers and Computer Technology	3
CURRIC 209	Digital Media and Literacy	3
CURRIC 277	Videogames & Learning	3
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC/CURRIC 354	Teaching Music	3
THEATRE/CURRIC/ SLAVIC 362	Drama for Teaching and Learning	3

### MC-EA Minor Requirement

Students will complete a minor in English as a Second Language through their professional sequence coursework.

### Professional Sequence

Each semester of the sequence must be followed sequentially and taken in consecutive semesters. Class schedules for the sequence are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 311	Language Acquisition and Use In and Out of Schools, Middle Childhood through Early Adolescence	3
CURRIC 312	ESL/Bilingual Issues	3
CURRIC 317	Dimensions of Literacy	3
CURRIC 339	Cultural Foundations of Learning and Development	3
CURRIC 340	Elementary Education Practicum One	3
<b>Semester 2</b>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
CURRIC 318	Teaching Reading and Writing	3
CURRIC 338	The Language of Schooling	3
CURRIC 371	Teaching Social Studies	3
CURRIC 367	Elementary Teaching Practicum II	3
<b>Semester 3</b>		
ED POL 300	School and Society	3
CURRIC 316	ESL/Bilingual Methods	3
CURRIC 370	Teaching Mathematics	3
CURRIC 372	Teaching Science	3
CURRIC 373	Elementary Teaching Practicum III	3
<b>Semester 4</b>		
CURRIC 463	Seminar in Pre-Kindergarten Through Middle School Teaching	2
CURRIC 464	Student Teaching in the Elementary School	10
or CURRIC 454	Student Teaching in the Middle School	

### Elective Coursework

Select additional coursework, if needed, to complete the minimum of 120 credits.

### OPTION 3—MIDDLE CHILDHOOD-EARLY ADOLESCENCE/SPECIAL EDUCATION AND ELEMENTARY EDUCATION DUAL MAJOR

The Middle Childhood–Early Adolescence/Special Education option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are certified in both Special Education and Elementary Education at the Middle Childhood–Early Adolescence levels. Admitted students begin the four-semester professional sequence in the fall following admission.

**RP & SE 300 Individuals with Disabilities—Admission Prerequisite**

This course must be completed prior to beginning the professional sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

**Environmental Education Requirement**

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

**Environmental Education courses**

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**Mathematics for Elementary Teachers**

Code	Title	Credits
MATH 130	Mathematics for Teaching: Numbers and Operations	3

MATH 131	Mathematics for Teaching: Geometry and Measurement	3
MATH 132	Problem Solving in Algebra, Probability and Statistics	3

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

**Education Coursework**

Code	Title	Credits
<b>Child and Adolescent Development</b>		3-6
Select one:		
ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 320 & ED PSYCH 321	Human Development in Infancy and Childhood and Human Development in Adolescence <sup>1</sup>	
<b>Learning</b>		
ED PSYCH 301	How People Learn	3
<b>Foundations of the Profession</b>		3
Select one:		
ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education	

<sup>1</sup> With permission, PSYCH 460 Developmental Psychology (formerly 560) may be substituted for ED PSYCH 320 Human Development in Infancy and Childhood. Students are strongly encouraged to complete this requirement before program admission.

**Professional Sequence**

Admitted students complete a four-semester sequence of professional courses beginning in the fall semester after program admission. Each semester of the sequence must be followed sequentially and taken in consecutive semesters. Class schedules for the sequence are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 364	Introduction to Education	3
CURRIC 368	The Teaching of Reading	3
CURRIC 369	The Teaching of Language Arts	3
CURRIC 367	Elementary Teaching Practicum II	3
RP & SE 466	Diversity in Special Education	3
<b>Semester 2</b>		
RP & SE 473	Management: Students with Learning and Behavioral Disabilities	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	4
RP & SE 475	Special Education Practicum: Middle Childhood - Early Adolescence	3-6

RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
RP & SE 401	Augmentative and Alternative Communication and Assistive Technology for Students with Disabilities	1

**Semester 3**

RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	4
CURRIC 372	Teaching Science	3
CURRIC/ RP & SE 365	Teaching Mathematics in Inclusive Settings	4
CURRIC 371	Teaching Social Studies	3
CURRIC 373	Elementary Teaching Practicum III	3

**Semester 4**

RP & SE 477	Special Education Student Teaching: Middle Childhood - Early Adolescence	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1
CURRIC 464	Student Teaching in the Elementary School	7
CURRIC 463	Seminar in Pre-Kindergarten Through Middle School Teaching	1
RP & SE 402	Methods in Teaching Functional Skills	1

**Elective Coursework**

Select additional coursework, if needed, to complete the minimum of 120 credits.

**OPTION 4—MIDDLE CHILDHOOD—EARLY ADOLESCENCE/CONTENT FOCUSED MINOR**

The Middle Childhood—Early Adolescence/Content Focused Minor option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students complete a content area minor that may lead to licensing in that subject. Admitted students currently begin the four-semester professional sequence in the spring after admission, although this will change in the near future.

**Environmental Education Requirement**

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

**Environmental Education courses**

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3

ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**Fine Arts**

Select 6 credits of fine arts coursework. These credits may also be applied toward the liberal studies requirement. See a list of fine arts courses under liberal studies (p. 1234).

**Mathematics for Elementary Teachers**

Code	Title	Credits
MATH 130	Mathematics for Teaching: Numbers and Operations	3
MATH 131	Mathematics for Teaching: Geometry and Measurement	3
MATH 132	Problem Solving in Algebra, Probability and Statistics	3

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

**Education Coursework**

Code	Title	Credits
<b>Child and Adolescent Development</b> 3-6		
Select one option:		
ED PSYCH 331	Human Development From Childhood Through Adolescence	

ED PSYCH 320 & ED PSYCH 321	Human Development in Infancy and Childhood and Human Development in Adolescence <sup>1</sup>
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### Foundations of the Profession 6

Select 6 credits of coursework numbered below 600 from the Educational Policy Studies department.

Recommended courses include:

ED POL 300	School and Society
ED POL/HISTORY 412	History of American Education
ED POL 500	Topics on Social Issues and Education

<sup>1</sup> With permission, PSYCH 460 Developmental Psychology (formerly 560) may be substituted for ED PSYCH 320 Human Development in Infancy and Childhood. Students are strongly encouraged to complete this requirement before program admission.

### Minor Requirement: Elementary Education

Elementary Education majors choosing the Content Focus option are required to complete a minor area of study that will lead to Wisconsin licensing in English Language Arts, Mathematics, Science or Social Studies. Students can select from the minors listed below or complete the equivalent Letters & Science major in the subject area. For more details about the requirements of each minor, choose from the links below.

- **Biology** (p. 1280)
- **Chemistry** (p. 1282)
- **Earth Science** (p. 1301)
- **Economics** (p. 1302)
- **English** (p. 1320)
- **English Language Arts** (p. 1318)
- **Geography** (p. 1334)
- **History** (p. 1349)
- **Mathematics** (p. 1394)
- **Mathematics and Science Dual** (p. 1392)
- **Mathematics Specialized** (p. 1391)
- **Physics** (p. 1394)
- **Political Science** (p. 1395)
- **Psychology** (p. 1411)
- **Science Specialized** (p. 1411)
- **Social Studies** (p. 1411)
- **Sociology** (p. 1417)

### Professional Sequence

Admitted students complete a four-semester sequence of professional courses. Each semester of the sequence must be followed sequentially and taken in consecutive semesters. Class schedules for the sequence are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 364	Introduction to Education	3
CURRIC 309	Reading and Writing Across the Content Areas	3
<b>Semester 2</b>		

CURRIC 368	The Teaching of Reading	3
CURRIC 369	The Teaching of Language Arts	3
CURRIC 370	Teaching Mathematics	3
CURRIC 367	Elementary Teaching Practicum II	3

### Semester 3

CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
CURRIC/RP & SE 506	Strategies for Inclusive Schooling	3

CURRIC 311	Language Acquisition and Use In and Out of Schools, Middle Childhood through Early Adolescence	3
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CURRIC 373	Elementary Teaching Practicum III	3
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### Semester 4

CURRIC 463	Seminar in Pre-Kindergarten Through Middle School Teaching	2
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CURRIC 464	Student Teaching in the Elementary School	10
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or CURRIC 454 Student Teaching in the Middle School

### Elective Coursework

Select additional coursework, if needed, to complete the minimum of 120 credits.

## GPA AND OTHER GRADUATION REQUIREMENTS—REQUIRED FOR ALL PROGRAM OPTIONS

### GRADUATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Requirements below are based on UW–Madison coursework.

- 2.5 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- 2.75 cumulative grade point average in the minor, if required.
- Minimum 120 credits (degree candidates only).
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300–699) in residence on the UW–Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum are considered part of the 30 credits.

### DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about

appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1314)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

**Quality of Work**

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. The teacher candidate will create and implement developmentally appropriate and challenging learning experiences that reflect high expectations for every learner, supporting learners to (1) develop deep understanding of content areas and their connections, and (2) apply understanding in meaningful ways.
2. The teacher candidate will select and/or create and sequence individually supportive and challenging learning experiences that reflect knowledge of individual learners, curriculum, pedagogies, and relevance to all learners and their families.
3. The teacher candidate will use a variety of teaching strategies, and evidence-based technologies and information resources to engage learners in meaningful learning activities that lead to content knowledge, critical thinking, creativity, innovation, self-evaluation, and self-directed learning. Use evidence to continually evaluate the effectiveness of these practices, and adjust these as needed to improve learner outcomes.
4. The teacher candidate will collaborate with others to create supportive, inclusive, linguistically responsive, and safe learning environments that help all learners meet high standards and reach their full potential.
5. The teacher candidate will choose, modify, and/or create multiple forms of unbiased formative and summative assessments to measure each learner's progress toward instructional goals. Use assessment data gathered to respond to each learner's strengths and needs in relation to short and long-term goals. Reflect on and justify planning decisions and ground one's justifications in knowledge of learners, development, curriculum, pedagogies, and resources.
6. The teacher candidate will use studies completed in science and mathematics, social sciences, the humanities, histories, languages, and the arts to inform and deepen their teaching of content areas and meeting learners' needs.

## ADVISING AND CAREERS

### ELEMENTARY EDUCATION ADVISING

Students not yet admitted to Elementary Education meet with their assigned advisor in Education Academic Services (EAS) and/or the Office of Undergraduate Recruitment and Retention (OURR), see below. Students are assigned an additional departmental advisor when admitted to the professional component of their degree program.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students



will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

## UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff

at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Curriculum and Instruction can be found on the department's website. (<http://ci.education.wisc.edu>)

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation

##### Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

##### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background

check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

## Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates*

*(i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

## Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre–Student Teaching Practicum

The pre–student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific

policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students.

Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service

area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

### Minority Group Relations and Conflict Resolution Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.

- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## ENGLISH LANGUAGE ARTS, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The English language arts minor requires the completion of 24 credits to include the requirements of each group of courses. A minimum cumulative grade point average of 2.75 is required, based on all UW–Madison coursework included in the minor.

The courses listed here will meet the requirements in each category, but additional courses can be considered.

### INTRODUCTORY LITERATURE

Complete two introductory literature courses. Courses with a Literature breadth designation from many departments—e.g., Comparative Literature, Classics, African Languages and Literature, English, or Theatre—may be selected to meet this requirement.

## INTERNATIONAL LITERATURE

Select one course from the following:

International Literature Courses		
Code	Title	Credits
<b>African Languages and Literature</b>		
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 211	The African Autobiography	3
AFRICAN 300	African Literature in Translation	3
AFRICAN 405	Topics in African Cultural Studies	3
AFRICAN/ FOLKLORE 411	African Poetry	3-4
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
AFRICAN/ FOLKLORE 471	Oral Traditions and the Written Word	3-4
<b>Folklore</b>		
FOLKLORE 100	Introduction to Folklore	3
FOLKLORE/ AFRICAN 210	The African Storyteller	3
FOLKLORE 220	The Folk Tale	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
FOLKLORE/LCA 279	Introduction to Turkish Folk Literature	3
FOLKLORE/ LITTRANS/ MEDIEVAL/ RELIG ST 342	In Translation: Mythology of Scandinavia	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 345	In Translation: The Scandinavian Tale and Ballad	3-4
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/LCA 374	Indian Folklore	3
FOLKLORE 428	Gender and Expressive Culture	3
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE 460	Folk Epics	3
FOLKLORE/ AFRICAN 471	Oral Traditions and the Written Word	3-4
FOLKLORE 510	Folklore Theory	3
FOLKLORE 517	The Irish Tradition	3
FOLKLORE 518	The Scottish Tradition	3
<b>English</b>		
ENGL/ AMER IND 275	American Indian Oral Literatures	3
<b>Library and Information Studies</b>		
LI S 624	Story Telling and Oral Literature	3

Any Literature in Translation course with the "L" breadth code

## AMERICAN SOCIAL LITERATURE

This requirement addresses cultural diversity from the perspective of race, ethnicity, class, gender, sexual orientation, or ability.

Select one course from the following:

American Social Literature courses		
Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 155	They: Race in American Literature	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3
AFROAMER 225	Introduction to African American Dramatic Literature	3
AFROAMER 227	Masterpieces of African American Literature	3
AFROAMER 265	African-American Autobiography	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER 525	Major Authors	3
AFROAMER 605	Critical and Theoretical Issues in Afro-American Literature	3
<b>American Indian Studies</b>		
AMER IND/ ENGL 172	Literatures of Native America	3
AMER IND/ ENGL 275	American Indian Oral Literatures	3
<b>English</b>		
ENGL 171	Literature, Gender, and Sexuality	3
ENGL 173	Ethnic and Multicultural Literature	3
ENGL/GEN&WS 248	Women in Ethnic American Literature	3
ENGL/GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

## MASS COMMUNICATION

Select one course from the following:

Mass Communication courses		
Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 303	Blacks, Film, and Society	3
<b>American Indian Studies</b>		

AMER IND 325	American Indians in Film	3
<b>Asian American Studies</b>		
ASIAN AM/ JOURN 662	Mass Media and Minorities	4
<b>Chican@ and Latin@ Studies</b>		
CHICLA/ COM ARTS 419	Latino/as and Media	3
<b>Communication Arts</b>		
COM ARTS 250	Survey of Contemporary Media	3
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3
COM ARTS 353	Film History Since 1960	3
COM ARTS 355	Introduction to Media Production	4
<b>History</b>		
HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4
HISTORY/ JOURN 560	History of Mass Communication	4
<b>Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 561	Mass Communication and Society	4
JOURN 565	Effects of Mass Communication	4
JOURN/COM ARTS/ HDFS/LSC 616	Mass Media and Youth	3
<b>Life Sciences Communication</b>		
LSC 440	Contemporary Communication Technologies and Their Social Effects	3

## SPEECH COMMUNICATION

Select one course from the following:

<b>Speech Communication courses</b>		
Code	Title	Credits
<b>Communication Arts</b>		
COM ARTS 260	Communication and Human Behavior	3
COM ARTS 262	Theory and Practice of Argumentation and Debate	3
COM ARTS 266	Theory and Practice of Group Discussion	3
COM ARTS 272	Introduction to Interpersonal Communication	3
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	3
COM ARTS 368	Theory and Practice of Persuasion	3
COM ARTS 371	Communication and Conflict Resolution	3
<b>Theatre</b>		
THEATRE 150	Introduction to Acting	3
THEATRE 250	Fundamentals of Acting	3

## ENGLISH COMPOSITION

Select one course from the following:

### English Composition courses

Code	Title	Credits
ENGL 201	Intermediate Composition	3
ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 400	Advanced Composition	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 508	Creative Writing: Advanced Fiction Workshop	3
ENGL 509	Creative Writing: Advanced Poetry Workshop	3

## ELECTIVES

Select any course from the areas above (excluding introductory literature) or from the following options to reach the minimum of 24 credits:

### Additional elective courses

Code	Title	Credits
ENGL 314	Structure of English	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	4
LINGUIS 101	Human Language	3
LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	3
LINGUIS 103	Language, History, and Society	3
LINGUIS 303	Language, History, and Society	3
LINGUIS/ANTHRO/ LCA 430	Language and Culture	3-4

## ENGLISH, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of English is housed in the College of Letters & Science. Students may wish to consult with the undergraduate advisor in English to discuss course selection and other issues related to this field of study.

Karen Redfield, Undergraduate Advisor  
 advisor@english.wisc.edu  
 608-263-3760  
 7195E Helen C. White Hall  
 600 North Park Street



English Undergraduate Advising (<https://english.wisc.edu/undergraduate-advising.htm>)

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The English minor requires the completion of 24–30 credits to include the coursework listed below. A minimum cumulative grade point average of 2.75 is required, based on all UW–Madison coursework included in the minor.

Note: Six credits of introductory literature must be completed prior to enrolling in coursework required for the English minor. Courses with an Literature breadth designation from many departments—e.g., Comparative Literature, Classical & Ancient Near Eastern Studies, African Languages and Literature, or Theatre and Drama—may be selected to meet this requirement. Students are encouraged to explore these options, although introductory English department coursework may also be used in this capacity.

Code	Title	Credits
<b>Required Courses</b>		
Complete the following:		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
CURRIC 431	Young Adult Literature for Schools (or approved substitute)	3
ENGL 314	Structure of English (students are encouraged to take this course as early as possible)	3
<b>Shakespeare</b>		
Select one of the following:		
ENGL 219	Shakespearean Drama	
ENGL 220	Shakespearean Drama	
ENGL 431	Early Works of Shakespeare	
ENGL 432	Later Works of Shakespeare	
<b>Elective</b>		
Select one English department elective numbered 204 and above, except for 207 and 236 <sup>1</sup>		
<b>Ethnic Literature</b>		
Select one 3-credit intermediate or advanced ethnic literature course <sup>2</sup>		
<b>Applied English Linguistics</b>		
Select one of the following (listed in order of preference):		
ENGL 516	English Grammar in Use	3
ENGL 417	History of the English Language	

ENGL 316	English Language Variation in the U.S.
ENGL 416	English in Society
ENGL 414	Global Spread of English

### Composition for English Teachers

Select a course in consultation with an advisor in Education Academic Services 3

### Additional Credits

Select credits, if necessary, to reach the minimum of 24 credits. Introductory literature may be used.

- Students considering a Letters & Science English major should select a pre-1800, non-Shakespeare literature course.
- Check the Schedule of Classes for Intermediate/Advanced-level courses that are designated as both Literature and Ethnic Studies courses.

## FRENCH, BSE

### WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admissions to the program. The director of the World Language Education program is Prof. François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;

- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a bachelor of science degree in education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1323)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System’s Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

### APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this

happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field

placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

This program has five components:

- Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.

- Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- Major coursework* offers in-depth study of the subject students will teach.
- Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science

- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PREREQUISITE COURSEWORK

Students must be at a fifth semester level of French or demonstrate a proficiency level equivalent to French 204 Fourth Semester French to begin the major requirements. If not at that level, the following courses should be taken. Prerequisite courses do not count toward major credits, but may be used to meet the liberal studies requirements.

Code	Title	Credits
FRENCH 101	First Semester French	4
FRENCH 102	Second Semester French	4
FRENCH 203	Third Semester French	4
FRENCH 204	Fourth Semester French	4

## MAJOR REQUIREMENTS

Complete a minimum of 36 credits to include at least 24 upper-level/advanced credits (300 and above). The credits of the major required for admission must be taken from this coursework. At least 15 credits of upper-level major coursework must be completed in residence on the UW–Madison campus.

Code	Title	Credits
FRENCH 271	Introduction to Literary Analysis	3-4
FRENCH 228	Intermediate Language and Culture	3-4
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization <sup>1</sup>	3
Two advanced language courses (311 and above) <sup>2</sup>		6-8
Two additional courses in literature or civilization numbered at the 400 or 500 level		6-8
FRENCH 590	Advanced Phonetics	3

Additional credits as necessary to complete the 36 credit total or 24 advanced level credits required for the French major. Introductory French coursework (101–204) may be used to meet the 36 credit total, but all other requirements must be met.

<sup>1</sup> FRENCH 348 Modernity Studies may be substituted with permission from the faculty advisor.

<sup>2</sup> It is strongly recommended that students complete fourth year language practice (FRENCH 311 and above), FRENCH 590 Advanced Phonetics, and FRENCH 347 Introduction to Medieval, Renaissance, and Early Modern Civilization and Early Modern Civilization, before the first methods/student teaching semester of the professional program.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester

in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

## PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442 or CURRIC 443	Student Teaching in World Languages (K-8) <sup>2</sup> Student Teaching in World Languages (6-12)	6
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443 or CURRIC 442	Student Teaching in World Languages (6-12) <sup>3</sup> Student Teaching in World Languages (K-8)	6
<i>Other Courses</i>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300 or ED POL/ HISTORY 412	School and Society History of American Education	3
<b>Semester 4</b>		
<i>Required Courses</i>		
CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9

CURRIC 564      Advanced Problems on the  
Teaching of World Languages

- <sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.
- <sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.
- <sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)
- <sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

- 3 Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p. 1329).

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

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

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

### DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### FRENCH EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach French. Students may want to consult an undergraduate advisor ([https://frit.wisc.edu/undergraduate/french/academic\\_advising](https://frit.wisc.edu/undergraduate/french/academic_advising)) in the French and Italian department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals



- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and French and Italian (<http://frit.wisc.edu>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

## Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests

for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student

teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty

advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student's program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually

liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

#### **Withdrawing From/Failing Field Experience Assignments**

Withdrawing from a field experience has serious implications for the student's progress in the program. Students who withdraw or receive an unsatisfactory grade (including a "D") from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student's withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student's future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

### **Minority Group Relations and Conflict Resolution**

#### **Minority Group Relations**

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed

information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

#### **Conflict Resolution Requirement**

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

#### **Phonics**

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

#### **Cooperatives**

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

#### **Portfolios**

Students in certification programs are required to demonstrate their knowledge and professional development through the

creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments

(names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## FRENCH, SED MINOR

### HOW TO GET IN

This minor is available only to students admitted to the World Language Education program, or to teachers already licensed to teach at an appropriate level and subject in Wisconsin. Undergraduate students interested in completing a certification minor in French must also complete a major in another World Language certification subject area and be admitted to the World Language Education program. It is not possible to be certified only in a minor area. Consult with an Education Academic Services advisor to discuss the feasibility of combining this minor with the major subject area—not all combinations may be possible and will require approval of the WLE program coordinator. Interested students must apply and be admitted to both language subject areas. The oral proficiency exam, any written exams, and the immersion experience required for certification must be completed in both languages.

Licensed teachers interested in pursuing certification in this minor should consult with the World Language Education program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### REQUIREMENTS

#### FRENCH MINOR

Note: The oral proficiency exam, any written exams, and an immersion experience are required for certification in this language. Consult the major requirements (p. 1324) in this subject for an explanation of these requirements and the World Language Education professional sequence.

#### PREREQUISITE COURSEWORK

These courses, or demonstrated proficiency through fourth semester French, must be completed before beginning the minor requirements.

Code	Title	Credits
FRENCH 101	First Semester French	4
FRENCH 102	Second Semester French	4
FRENCH 203	Third Semester French	4
FRENCH 204	Fourth Semester French	4

#### MINOR REQUIREMENTS

Complete a minimum of 24 credits. The French minor requires a minimum cumulative grade point average of 2.75, based on all French minor coursework taken on the UW–Madison campus.

Code	Title	Credits
FRENCH 271	Introduction to Literary Analysis	4
FRENCH 321	Introduction to Medieval, Renaissance, and Early Modern Literature	3
FRENCH 322	Introduction to Literature of Modernity	3
FRENCH 347	Introduction to Medieval, Renaissance, and Early Modern Civilization <sup>1</sup>	3
	Language course elective numbered 227 or above	3
FRENCH 590	Advanced Phonetics	3
Additional credits to complete 24 credits. <sup>2</sup>		

<sup>1</sup> FRENCH 348 Modernity Studies may be substituted with permission of faculty advisor.

<sup>2</sup> Introductory coursework (prerequisites) may be used to fulfill this requirement, but all other requirements must be met.

## ADVISING AND CAREERS

### FRENCH EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach French. Students may want to consult an undergraduate advisor ([https://frit.wisc.edu/undergraduate/french/academic\\_advising](https://frit.wisc.edu/undergraduate/french/academic_advising)) in the French and Italian department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## GEOGRAPHY, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Geography is housed in the College of Letters & Science. Students may wish to consult with the undergraduate advisor (<http://www.geography.wisc.edu/undergraduate/advising.php>) in the geography department, 144 Science Hall, 262-4438, to discuss course selection and other issues related to this field of study.

### HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The geography minor requires a minimum of 24 credits to include GEOG 342 and the required course distribution listed below. Each course may be counted in only one of the groups. Coursework must include at least two upper-level courses, numbered 300–699.

A minimum cumulative grade point average of 2.75 is required, based on all geography minor coursework taken on the UW–Madison campus.

## REQUIRED COURSE

Code	Title	Credits
GEOG 342	Geography of Wisconsin (Or an acceptable substitute selected in consultation with the undergraduate advisor in the Department of Geography. This course may be also used to fulfill the requirement in Area Studies and Global Systems)	3

## COURSE DISTRIBUTION REQUIREMENTS

Complete one course from each of the six groups:

### PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES

Courses address the locational arrangements of earth phenomena and their interaction as physical systems.

#### Physical Geography: Earth Systems and Environmental Processes course options

Code	Title	Credits
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/GEOSCI 320	Geomorphology	3
GEOG 321	Climatology	3
GEOG/ENVIR ST 325	Analysis of the Physical Environment	4
GEOG/GEOSCI 326	Landforms-Topics and Regions	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 331	Climatic Environments of the Past	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG 344	The American West	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOG/GEOSCI 523	Quaternary Vegetation Dynamics	3
GEOG/GEOSCI 524	Advanced Landform Geography	3
GEOG/SOIL SCI 525	Soil Geomorphology	3
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes	3

GEOG/GEOSCI 527	The Quaternary Period	3
GEOG/ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	3

### PEOPLE–ENVIRONMENT INTERACTION

Courses examine human use, perception, and modification of environments.

#### People-Environment Interaction course options

Code	Title	Credits
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	3
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG 319	Environmental Evaluation and Adaptation	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/ENVIR ST 337	Nature, Power and Society	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context	3
GEOG 344	The American West	3
GEOG 359	Australia: Environment and Society	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3
GEOG/ENVIR ST 439	US Environmental Policy and Regulation	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	4
GEOG 508	Landscape and Settlement in the North American Past	3
GEOG/SOIL SCI 526	Human Transformations of Earth Surface Processes	3
GEOG/ENVIR ST 534	Environmental Governance: Markets, States and Nature	3
GEOG/ENVIR ST 537	Culture and Environment	4
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3

### HUMAN GEOGRAPHY

Courses examine the location and organization of human settlements and activities.

#### Human Geography course options

Code	Title	Credits
GEOG 101	Introduction to Human Geography	4
GEOG 301	Geography of Social Organization	3

GEOG 302	Economic Geography: Locational Behavior	4
GEOG/URB R PL 305	Introduction to the City	3-4
GEOG 318	Introduction to Geopolitics	3
GEOG 340	World Regions in Global Context	3
GEOG 348	Latin America	4
GEOG 349	Europe	3
GEOG 353	Russia and the NIS-Topical Analysis	3
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3
GEOG/ENVIR ST/HISTORY 469	The Making of the American Landscape	4
GEOG 501	Space and Place: A Geography of Experience	3
GEOG/URB R PL 503	Researching the City: Qualitative Strategies	3
GEOG/URB R PL 505	Urban Spatial Patterns and Theories	3
GEOG/URB R PL 506	Historical Geography of European Urbanization	3
GEOG 510	Economic Geography	4
GEOG 518	Power, Place, Identity	3

## AREA STUDIES AND GLOBAL SYSTEMS

Courses focus on the ways in which regions, places, and landscapes have acquired distinctive characteristics and problems as a result of their locations and resource potentials, and of their settlement, appraisal, and use by particular peoples and cultures.

### Area Studies and Global Systems course options

Code	Title	Credits
GEOG/HISTORY/LCA/POLI SCI/SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/HISTORY/LCA/POLI SCI/SOC 252	The Civilizations of India-Modern Period	4
GEOG/HISTORY/POLI SCI/SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/AFROAMER/ANTHRO/C&E SOC/HISTORY/LACIS/POLI SCI/SOC/SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/AFROAMER/ANTHRO/HISTORY/POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 342	Geography of Wisconsin	3
GEOG 348	Latin America	4
GEOG 355	Africa, South of the Sahara	3
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3

## CARTOGRAPHY AND GEOGRAPHIC INFORMATION SCIENCE

Courses examine the creation and use of maps.

### Cartography and Geographic Information Science course options

Code	Title	Credits
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	3
GEOG 370	Introduction to Cartography	4
GEOG/CIV ENGR/ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 572	Graphic Design in Cartography	3-4
GEOG 574	Geospatial Database Design and Development	4
GEOG 575	Interactive Cartography & Geovisualization	4
GEOG 576	Geospatial Web and Mobile Programming	4
GEOG 577	Environmental Modeling with GIS	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4

## METHODOLOGY

Courses examine the skills, techniques and methodology necessary to conduct geographic investigation.

### Methodology course options

Code	Title	Credits
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	3
GEOG 360	Quantitative Methods in Geographical Analysis (offered only in spring)	4
GEOG 370	Introduction to Cartography	4
GEOG/CIV ENGR/ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	3

## GERMAN, BSE

## WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly



committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admissions to the program. The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a bachelor of science degree in education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply

for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1338)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System’s Regional Placement Testing Program. Placement examinations for Chinese,

Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

## APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

### ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a

Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- Academic Qualifications: The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.

- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education

program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PREREQUISITE COURSEWORK

Complete the following courses or demonstrate proficiency at the equivalent level. Prerequisite courses do not generally count toward the required credits of the major.

Code	Title	Credits
GERMAN 101	First Semester German	4
GERMAN 102	Second Semester German	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4
Select one of the following options:		
Option 1:		9
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 258	Intermediate German-Reading	
GERMAN 262	Intermediate German-Writing	
Option 2:		9
GERMAN 274	Introduction to German Literature	
GERMAN 249	Intermediate German - Speaking and Listening	

## MAJOR REQUIREMENTS

Complete a minimum of 27 credits in German courses numbered 300 and above. The credits in the major required for admission must be taken from the coursework below. Students must complete at least 15 credits of upper-level major coursework (numbered 300–699) in residence on the UW–Madison campus. Other courses, especially those transferred from international programs, may be substituted with the approval of the program coordinator.

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation	3-4
GERMAN 351	Introduction to German Linguistics	3-4
GERMAN 676	Advanced Seminar in German Studies	3

Additional 12 credits from any German courses numbered 300 or above. These must be courses designated by the Department of German as acceptable for the L&S major in German.

Two upper-level courses (300 or above) in related fields <sup>1</sup>

<sup>1</sup> These "cognate" courses must deal substantially with the German-speaking world and may be taken at any time during the degree work on campus. Courses come from related fields such as history, art history, philosophy, or music, and must receive prior approval from the program coordinator.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite

310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

### PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442 or CURRIC 443	Student Teaching in World Languages (K-8) <sup>2</sup> Student Teaching in World Languages (6-12)	6
<i>Other Courses</i>		

ED PSYCH 331	Human Development From Childhood Through Adolescence	3
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**Semester 3***Required Courses*

CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	

*Other Courses*

CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	

**Semester 4***Required Courses*

CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

<sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.

<sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.

<sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)

<sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework

- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1344)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### GERMAN EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach German. Students may want to consult an undergraduate advisor (p. 680) in the German, Nordic and Slavic department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners

to support underrepresented students interested in majors in the School of Education.

OURL staff perform outreach, recruitment, and advising on behalf of the School. OURL staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURL works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURL staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and German, Nordic and Slavic (<https://gns.wisc.edu>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal



background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3

POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

#### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

#### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter

part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching

experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.

- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. “Phonics” means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood (lockwood@education.wisc.edu), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to

as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after

graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## GERMAN, SED MINOR

### HOW TO GET IN

This minor is available only to students admitted to the World Language Education program, or to teachers already licensed to teach at an appropriate level and subject in Wisconsin. Undergraduate students interested in completing a certification minor in German must also complete a major in another World Language certification subject area and be admitted to the World Language Education program. It is not possible to be certified only in a minor area. Consult with an Education Academic Services advisor to discuss the feasibility of combining this minor with the major subject area—not all combinations may be possible and will require approval of the WLE program coordinator. Interested students must apply and be admitted to both language subject areas. The oral proficiency exam, any written exams, and the immersion experience required for certification must be completed in both languages.

Licensed teachers interested in pursuing certification in this minor should consult with the World Language Education program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### REQUIREMENTS

Note: The oral proficiency exam, any written exams, and an immersion experience are required for certification in this language. Consult the

major requirements (p. 1339) in this subject for an explanation of these requirements and the World Language Education professional sequence.

## PREREQUISITE COURSEWORK

Complete the following courses or demonstrate proficiency at the equivalent level. Prerequisite courses do not count toward the required credits of the minor.

Code	Title	Credits
GERMAN 101	First Semester German	4
GERMAN 102	Second Semester German	4
GERMAN 203	Third Semester German	4
GERMAN 204	Fourth Semester German	4
Select one of the following options:		
Option 1:		9
GERMAN 249	Intermediate German - Speaking and Listening	
GERMAN 258	Intermediate German-Reading	
GERMAN 262	Intermediate German-Writing	
Option 2:		9
GERMAN 274	Introduction to German Literature	
GERMAN 249	Intermediate German - Speaking and Listening	

## MINOR REQUIREMENTS

The German minor requires a minimum of 18 credits of advanced (numbered 300 and above) coursework. The prerequisites to these courses are listed above. The German minor also requires a minimum cumulative grade point average of 2.75, based on all German minor coursework taken on the UW–Madison campus.

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation	3-4
GERMAN 351	Introduction to German Linguistics	3-4

Complete 12 credits of any German courses numbered 300 or above. These must be courses designated by the Department of German, Nordic and Slavic as acceptable for the L&S major in German.

## ADVISING AND CAREERS

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach German. Students may want to consult an undergraduate advisor (p. 680) in the German, Nordic and Slavic department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## HISTORY, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education.

The Department of History is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor in the department to discuss course selection and other issues related to this field of study.

Students have numerous advising resources available to them, including both professional and peer advisors. Information on the History advising team, how to contact an advisor, how to schedule an appointment, and drop-in advising hours can be found on the departmental website ([http://history.wisc.edu/undergraduate\\_advising.htm](http://history.wisc.edu/undergraduate_advising.htm)).

Upcoming career events and internship opportunities are also available on the History Advising Blog (<http://uwhistoryadvising.blogspot.com>).

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The history minor requires a minimum of 24 credits. **No more than three courses may be numbered below 300.** A minimum cumulative grade point average of 2.75 is required, based on all history minor coursework taken on the UW–Madison campus.

### EUROPEAN HISTORY

Complete at least one course; includes British or Russian history.

#### European History course options

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	The Making of Modern Europe 1500-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 124	British History: 1688 to the Present	4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ MEDIÉVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 223	Explorations in European History (H)	3-4
HISTORY 224	Explorations in European History (S)	3
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4

HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
HISTORY 270	Eastern Europe since 1900	3-4
HISTORY 271	History Study Abroad: European History	1-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 312	The Medieval Church	3-4
HISTORY/ MEDIÉVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ MEDIÉVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3
HISTORY/ HIST SCI 324	Science in the Enlightenment	3
HISTORY/ ENVIR ST 328	Environmental History of Europe	3
HISTORY 333	The Renaissance	3-4
HISTORY/ RELIG ST 334	The Reformation	3-4
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
HISTORY 351	Seventeenth-Century Europe	3-4
HISTORY 352	Eighteenth Century Europe	3-4
HISTORY 357	The Second World War	3-4
HISTORY 358	French Revolution and Napoleon	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HISTORY/JEWISH/ MEDIÉVAL/ RELIG ST 368	The Bible in the Middle Ages	3
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4
HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4

HISTORY/ GEN&WS 392	Women in History	3-4	HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY 410	History of Germany, 1871 to the Present	3-4	HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
HISTORY 417	History of Russia	3-4	<b>U.S. HISTORY</b>		
HISTORY 418	History of Russia	3-4	Complete at least one course.		
HISTORY 419	History of Soviet Russia	3-4	<b>U.S. History course options</b>		
HISTORY 420	Russian Social and Intellectual History	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4	HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 425	History of Poland and the Baltic Area	3-4	HISTORY 102	American History, Civil War Era to the Present	4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4	HISTORY 109	Introduction to U.S. History	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3	HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3	HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	4	HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY 467	Economic and Social History of Europe 1500-1750	3-4	HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4
HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4	HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4
HISTORY 474	European Social History, 1830-1914	3-4	HISTORY 221	Explorations in American History (H)	3-4
HISTORY 475	European Social History, 1914- Present	3-4	HISTORY/ LEGAL ST 261	American Legal History to 1860	3
HISTORY/ LEGAL ST 476	Medieval Law and Society	3	HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3
HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3	HISTORY 272	History Study Abroad: United States History	1-4
HISTORY/ LEGAL ST 502	Law and Colonialism	3	HISTORY 302	History of American Thought, 1859 to the Present	3-4
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4	HISTORY 304	United States, 1877-1914	3-4
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4	HISTORY 305	United States 1914-1945	3-4
HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3	HISTORY 306	The United States Since 1945	3-4
HISTORY 514	European Cultural History Since 1870	3-4	HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3	HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4
HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3	HISTORY 329	History of American Capitalism	4
HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3	HISTORY 343	Colonial British North America	3-4
HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY/CLASSICS/ FRENCH/ITALIAN/ MIEVEAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3	HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
			HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3
			HISTORY 391	The Age of Jefferson and Jackson, 1789-1848	3-4
			HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4

HISTORY/HIST SCI/ MED HIST 394	Science in America	3	HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 403	Immigration and Assimilation in American History	3-4	HISTORY 377	History of Africa, 1500 to 1870	3-4
HISTORY 408	American Labor History: 1900- Present	3-4	HISTORY 378	History of Africa Since 1870	3-4
HISTORY/ ED POL 412	History of American Education	3	HISTORY 444	History of East Africa	3-4
HISTORY/ JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4	HISTORY 445	History of Equatorial Africa	3-4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3	<b>Central or East Asian History course options</b>		
HISTORY 427	The American Military Experience to 1902	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
HISTORY 428	The American Military Experience Since 1899	3-4	HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4	HISTORY 108	Introduction to East Asian History - Korea	3-4
HISTORY/ CHICLA 461	The American West to 1850	3-4	HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4	HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ECON 466	The American Economy Since 1865	3-4	HISTORY/ASIAN AM/ E A STDS 276	Chinese Migrations since 1500	3-4
HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4	HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4	HISTORY 335	Korean History, 1945 to present	3-4
HISTORY/ AMER IND 490	American Indian History	3-4	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3	HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ JOURN 560	History of Mass Communication	4	HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY/L I S 569	History of American Librarianship	3	HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	HISTORY/ E A STDS 363	China and World War II in Asia	3-4
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3	HISTORY/ E A STDS 454	Samurai: History and Image	3-4
			HISTORY/ E A STDS 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

## NON-WESTERN HISTORY (AFRICA, ASIA, LATIN AMERICA, MIDDLE EAST)

Complete one course; Russian history does not fulfill this requirement.

### African History course options

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4

### South or Southeast Asian History course options

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN AM/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
HISTORY/E ASIAN/ LCA/RELIG ST 308	Introduction to Buddhism	3-4
HISTORY 319	The Vietnam Wars	3-4
HISTORY/LCA/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/LCA 450	Making of Modern South Asia	3-4



HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HISTORY 463	Topics in South Asian History	3
HISTORY/LCA/ RELIG ST 547	Religion, Colonialism & Modernity in Southeast Asia	3

### Latin American History course options

Code	Title	Credits
HISTORY 240	Colonial Latin America from Conquest to Insurgency	4
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY 242	Modern Latin America, 1898 to the Present	4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY 555	History of Brazil	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

### Middle Eastern History course options

Code	Title	Credits
HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/GEN&WS/ LCA 472	Women in Turkish Society	3
HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4

## ANCIENT/MEDIEVAL HISTORY

Complete one European or Non-Western history course with a focus on the European or Mediterranean area before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence. This course may also be counted toward the fulfillment of the other distribution requirements above.

### Ancient/Medieval History course options

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MEDIÉVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ MEDIÉVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 312	The Medieval Church	3-4
HISTORY/ MEDIÉVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ MEDIÉVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY 333	The Renaissance	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY/JEWISH/ MEDIÉVAL/ RELIG ST 368	The Bible in the Middle Ages	3
HISTORY/ RELIG ST 379	Islam in Iran	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ RELIG ST 439	Islamic History From the Origin of Islam to the Ottoman Empire	3-4
HISTORY/ E A STDS 454	Samurai: History and Image	3-4
HISTORY/LCA 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4

HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/CLASSICS/ FRENCH/ITALIAN/ MEDIEVAL 550	Advanced Interdisciplinary Studies in Medieval Civilization	3
HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY/HIST SCI/ MED HIST/ MEDIEVAL/ S&A PHM 562	Byzantine Medicine and Pharmacy	3

## HISTORICAL RESEARCH

Select one course. This course may also be counted toward the fulfillment of the other distribution requirements above. HISTORY 201 is specifically designed to be a research methods course and is strongly recommended. Multiple topics will be offered every fall and spring under this number.

### Historical Research course options

Code	Title	Credits
HISTORY 201	The Historian's Craft	3-4
HISTORY 319	The Vietnam Wars	3-4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY 408	American Labor History: 1900- Present	3-4
HISTORY 418	History of Russia	3-4
HISTORY/LCA 458	History of Southeast Asia Since 1800	3-4
HISTORY/ CHICLA 461	The American West to 1850	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4
HISTORY 503	Irish and Scottish Migrations	3
HISTORY/ GEN&WS 519	Sexuality, Modernity and Social Change	3
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3

## ELECTIVES

Complete additional coursework, if necessary, to reach the minimum of 24 credits. It is recommended that students completing the history minor take a one-year continuous course in American history (e.g., HISTORY 101 and HISTORY 102).

## ITALIAN, BSE

Student access to the Italian Education certification program is dependent upon available supervisory and cooperating teacher resources. For this reason, prospective Italian Education students must consult with advising staff at Education Academic Services (EAS), Room

139 Education Building, 1000 Bascom Mall, 608-262-1651. Students who do not have previous teaching experience or have not completed a teacher preparation program should expect to participate in the four-semester World Language Education program. Teacher candidates with extensive coursework or teaching experience may complete a modified program after consultation with faculty. Admission to the four-semester professional program entails meeting minimum admission requirements and adherence to strict application deadlines. See the WLE program director, Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building, to determine the feasibility of completing certification in this language.

## WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admissions to the program. The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

The objectives of the K-12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a bachelor of science degree in education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach

Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1356)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from

the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System’s Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

### APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

#### ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education’s Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.

- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document *Academic Tests for Prospective Teachers* (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure,

students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives** (p. 1234) to total **40 Credits**.

## MAJOR REQUIREMENTS

Complete a minimum of 36 credits. Students must complete at least 15 credits of upper-level major coursework (numbered 300–699) in residence on the UW–Madison campus.

Code	Title	Credits
<b>Complete 16 credits of Elementary and Intermediate Italian, or demonstrate proficiency at the equivalent levels:</b>		
ITALIAN 101	First Semester Italian	4
ITALIAN 102	Second Semester Italian	4
ITALIAN 203	Third Semester Italian	4
ITALIAN 204	Fourth Semester Italian	4
<b>Select 20 hours beyond ITALIAN 204 to include:</b>		
ITALIAN 311 & ITALIAN 312	Advanced Italian Language and Writing Workshop	6
ITALIAN 321 & ITALIAN 322	Introduction to Italian Literature and Introduction to Italian Literature	6
	Upper level Culture/Civilization course chosen in consultation with advisor	3
	Select two more courses in literature or culture/civilization (400 or 500 level)	6-8
Additional coursework, if necessary, to reach the minimum of 36 credits		

Students who expect to become teachers of Italian should elect courses in related fields, such as art history, history, other languages and literatures (especially English), music appreciation, and philosophy. Prospective teachers should take every opportunity to increase oral mastery of the language. The Italian Club at the university offers lectures and films about Italy, and opportunities to converse in Italian. Occasionally, modern and classical plays are presented for the public.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student

teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to

your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

### PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		

CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442 or CURRIC 443	Student Teaching in World Languages (K-8) <sup>2</sup> Student Teaching in World Languages (6-12)	6
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443 or CURRIC 442	Student Teaching in World Languages (6-12) <sup>3</sup> Student Teaching in World Languages (K-8)	6
<i>Other Courses</i>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300 or ED POL/ HISTORY 412	School and Society History of American Education	3
<b>Semester 4</b>		
<i>Required Courses</i>		
CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

<sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.

<sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.

<sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)

<sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

### DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within

the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1362)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.



## ADVISING AND CAREERS

### ITALIAN EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Italian. Students may want to meet with an undergraduate advisor ([https://frit.wisc.edu/undergraduate/french/academic\\_advising](https://frit.wisc.edu/undergraduate/french/academic_advising)) in the French and Italian department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are

encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/

or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.

- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and French and Italian (<http://frit.wisc.edu>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been

placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water. Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4

GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

#### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

#### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading

Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

#### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

#### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

#### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

#### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management.

Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

#### **General Eligibility Requirements for Student Teaching**

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

#### **Student Teaching Application Procedures**

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

#### **Alternative Placement Options for Student Teaching**

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

#### **Special Placements**

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

#### **Withdrawing From/Failing Field Experience Assignments**

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

## Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

## Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

## Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These

artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## ITALIAN, SED MINOR

### HOW TO GET IN

This minor is available only to students admitted to the World Language Education program, or to teachers already licensed to teach at an appropriate level and subject in Wisconsin. Undergraduate students interested in completing a certification minor in Italian must also complete a major in another World Language certification subject area and be admitted to the World Language Education program. It is not possible to be certified only in a minor area. Consult with an Education Academic Services advisor to discuss the feasibility of combining this minor with the major subject area—not all combinations may be possible and will require approval of the WLE program coordinator. Interested students must apply and be admitted to both language subject areas. The oral proficiency exam, any written exams, and the

immersion experience required for certification must be completed in both languages.

Licensed teachers interested in pursuing certification in this minor should consult with the World Language Education program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## REQUIREMENTS

Note: The oral proficiency exam, any written exams, and an immersion experience are required for certification in this language. Consult the major requirements (p. 1357) in this subject for an explanation of these requirements and the World Language Education professional sequence.

## MINOR REQUIREMENTS

The Italian minor requires a minimum of 26 credits and a minimum cumulative grade point average of 2.75, based on all Italian minor coursework taken on the UW–Madison campus.

Code	Title	Credits
ITALIAN 101 & ITALIAN 102	First Semester Italian and Second Semester Italian <sup>1</sup>	8

18 credits above ITALIAN 102, to include at least 2 credits in composition and conversation

<sup>1</sup> Or demonstrated proficiency at the equivalent levels.

## ADVISING AND CAREERS

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Italian. Students may want to meet with an undergraduate advisor ([https://frit.wisc.edu/undergraduate/french/academic\\_advising](https://frit.wisc.edu/undergraduate/french/academic_advising)) in the French and Italian department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## JAPANESE, BSE

### WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly

committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from underrepresented groups to apply for admissions to the program. The director of the World Language Education program is Prof. François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a Bachelor of Science degree in Education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply

for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1369)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

## PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System's Regional Placement Testing Program. Placement examinations for Chinese,

Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

## APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a



Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant’s eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student’s last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates’ eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. (“Attempted” coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- Academic Qualifications: The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.

- Career Maturity: The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- Ability to Relate to Youth: The applicant demonstrates the ability to work effectively with young people.
- Commitment to All Students: The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- Interpersonal Skills: The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean’s Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education

program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PREREQUISITE COURSEWORK

Complete the following courses or demonstrate proficiency at the equivalent levels. Prerequisite courses do not count toward the credits required of the major.

Code	Title	Credits
E ASIAN 103	First Semester Japanese	6
E ASIAN 104	Second Semester Japanese	6

## MAJOR REQUIREMENTS

Complete a minimum of 38 credits. Students must complete at least 15 credits of upper-level major coursework (numbered 220 and above) in residence on the UW–Madison campus.

Code	Title	Credits
E ASIAN 203	Third Semester Japanese	6
E ASIAN 204	Fourth Semester Japanese	6
E ASIAN 253	Introduction to Japanese Culture and Civilization	3
E ASIAN 303	Fifth Semester Japanese	4
E ASIAN 304	Sixth Semester Japanese	4

E ASIAN 335	Intermediate Japanese Conversation	3
E ASIAN 353	Survey of Japanese Literature	3
E ASIAN 354	Survey of Japanese Literature	3
E ASIAN 434	Introduction to Japanese Linguistics	3
HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
If needed, select additional coursework to reach the minimum of 38 credits		
Recommended courses:		
E ASIAN 404	Eighth Semester Japanese	3
E ASIAN 323	First Year Classical Japanese	3

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in

all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

## PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442	Student Teaching in World Languages (K-8) <sup>2</sup>	6
or CURRIC 443	Student Teaching in World Languages (6-12)	
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	
<i>Other Courses</i>		

CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	
<b>Semester 4</b>		
<i>Required Courses</i>		
CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

- <sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.
- <sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.
- <sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)
- <sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student

teaching and practicum work are considered part of the 30 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student’s progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a “what if” DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program’s requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1375)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### JAPANESE EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Japanese. Students should also contact Professor Naomi Fujita Geyer, [nfgeyer@wisc.edu](mailto:nfgeyer@wisc.edu), 1260 Van Hise Hall, 262-9221 or 262-2291, as soon as possible to discuss course sequencing, admission to the program, and other aspects of certification to teach Japanese.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and

is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### **UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)**

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### **OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)**

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff

at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### **SCHOOL OF EDUCATION CAREER CENTER**

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and Asian Languages and Cultures (<http://alc.wisc.edu>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

## Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates*

*(i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

## Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre–Student Teaching Practicum

The pre–student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific



policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students.

Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service

area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

### Minority Group Relations and Conflict Resolution Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.

- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Conflict Resolution Requirement**

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Phonics**

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### **Cooperatives**

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### **Portfolios**

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### **Teacher Standards**

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## LATIN, BSE

### WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admissions to the program. The director of the World Language Education program is Prof. François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic

portfolios and implement research-based practices in their teaching;

- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a Bachelor of Science degree in Education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1381)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly

advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System’s Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

### APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program

resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field

placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

This program has five components:

- Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.

- Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- Major coursework* offers in-depth study of the subject students will teach.
- Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science

- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

Complete **Liberal Studies Electives** (p. 1234) to total **40 Credits**.

## MAJOR REQUIREMENTS

Complete a minimum of 40 credits. At least 15 credits of upper-level major coursework (numbered 301, 302, 500 and above) must be completed in residence at UW–Madison to meet the major residency requirement.

### REQUIRED COURSES

Complete the following, 22 credits.

Code	Title	Credits
LATIN 103	Elementary Latin	4
LATIN 104	Elementary Latin	4
LATIN 203	Intermediate Latin	4
LATIN 204	Introduction to Latin Literature	4
LATIN 301	Latin Literature of the Roman Republic	3
LATIN 302	Latin Literature of the Roman Empire	3

### READING COURSES

Select two Latin reading courses numbered 500 or above. Most courses require completion of Latin 302 or consent of instructor. Suggested courses include:

Code	Title	Credits
LATIN 505	Elementary Prose Composition	3
LATIN 515	Vergil	3
LATIN 519	Latin Poetry	3
LATIN 520	Roman Drama	3
LATIN 521	Roman Elegy	3
LATIN 522	Roman Lyric Poetry	3
LATIN 523	Roman Satire	3
LATIN 524	Roman Novel	3
LATIN 539	Latin Historical Writers	3
LATIN 549	Latin Philosophical Writers	3
LATIN 559	Latin Oratory	3
LATIN/ MIDIEVAL 563	Mediaeval Latin	3

### THE CLASSICAL WORLD

Complete the following Classics courses:

Code	Title	Credits
CLASSICS 322	The Romans	3
CLASSICS 370	Classical Mythology	3

### ELECTIVES

Complete additional upper-level Latin coursework (<http://guide.wisc.edu/courses/latin>) to reach the minimum of 40 credits.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed

sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

## PROFESSIONAL SEQUENCE COURSE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442	Student Teaching in World Languages (K-8) <sup>2</sup>	6
or CURRIC 443	Student Teaching in World Languages (6-12)	
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	

### Other Courses

CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	

### Semester 4

#### Required Courses

CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

- The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.
- Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.
- Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)
- Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student



teaching and practicum work are considered part of the 30 credits.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student’s progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a “what if” DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program’s requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1387)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### LATIN EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Latin. Students may want to consult the undergraduate advisor (<https://calendar.wisc.edu/scheduling-assistant/public/profiles/YjffFEtg.html>) in the Department of Classical and Ancient Near Eastern Studies regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and

is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff

at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and Classical and Ancient Near Eastern Studies (<http://canes.wisc.edu>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

#### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

#### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

## Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates*

*(i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

## Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific

policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students.

Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service

area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

### Minority Group Relations and Conflict Resolution Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.

- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Conflict Resolution Requirement**

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Phonics**

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### **Cooperatives**

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### **Portfolios**

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### **Teacher Standards**

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## LATIN, SED MINOR

The Latin minor is currently under review. Please contact Education Academic Services, 139 Education Building, 608-262-1651, with any questions regarding the status of this program. A Latin major (p. 1379) is offered through the School of Education; interested students may want to investigate this option.

## MATHEMATICS SPECIALIZED, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 22 credits to include the requirements below. A minimum cumulative grade point average of 2.75 is required, based on all minor coursework taken on the UW–Madison campus.

Code	Title	Credits
<b>Required Courses</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
STAT 224 or STAT 301	Introductory Statistics for Engineers Introduction to Statistical Methods	3
<b>Additional credits chosen from the following:</b>		
MATH 135	Algebraic Reasoning for Teaching Math	3
MATH 234	Calculus—Functions of Several Variables	4
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
MATH 340	Elementary Matrix and Linear Algebra	3
MATH 461	College Geometry I	3
MATH/HIST SCI 473	History of Mathematics	3

## MATHEMATICS AND SCIENCE DUAL, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

### HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

### REQUIREMENTS

This minor is intended for Elementary Education majors wishing to enhance their content preparation in mathematics and science and is particularly suitable for Elementary Education majors who intend to teach mathematics and science in the middle school.

A minimum cumulative grade point average of 2.75 is required, based on all minor coursework taken on the UW–Madison campus.

### MATHEMATICS COMPONENT

The mathematics sequence emphasizes problem solving, mathematical reasoning and justification, communicating, and building on students' mathematical ideas in areas such as algebraic thinking, calculus, and probability and statistics. The capstone course, MATH 138, is for students to build connections across core ideas in upper-level elementary and middle school mathematics and to understand how these evolve from and into elementary and higher level mathematics. This sequence is also intended to prepare students to take the Praxis examination for

middle school mathematics, thereby permitting certification and licensure in most other states that require more in-depth content preparation.

Complete the following courses. Students completing this minor will take MATH 135 instead of MATH 132 in the Elementary Education sequence.

Code	Title	Credits
MATH 135	Algebraic Reasoning for Teaching Math <sup>1</sup>	3
MATH 136	Pre-calculus and Calculus for Middle School Teachers <sup>2</sup>	6
MATH 138	Mathematics for Teaching: Conjecture, Generalization, and Proof <sup>3</sup>	3

<sup>1</sup> Offered each spring semester. For more detailed information about MATH 135, see this website (<http://www.math.wisc.edu/%7EElmpp/ed.html>).

<sup>2</sup> This is a 6-credit course based on the large lecture of MATH 171 Calculus with Algebra and Trigonometry I with a special discussion section for students completing this minor. Offered each fall semester. The following students will be exempt from this course requirement: students having taken MATH 213, MATH 217, MATH 221, MATH 222, MATH 234, MATH 275, MATH 276, or MATH 375 (or an exact transfer equivalent of any of these) with a grade of B or better; students having passed the AP Calculus AB test with a score of 5; and students having passed the AP Calculus BC test with a score of 4 or better.

<sup>3</sup> This 3-credit capstone course is similar to MATH 132.

### SCIENCE COMPONENT

The aim of the **science component** of this minor is for students to understand science as an intellectual activity. The goals of science and the diverse means by which scientific knowledge is generated and validated should be at the core of the science portion of this minor. Upon its completion, students should have had opportunities to understand some of the most powerful organizing ideas in the various scientific disciplines as well as how those ideas have been and are generated. Such an understanding should provide students with the fundamental tools and outlook necessary to teach the variety of science content typically taught in middle schools.

The committee that developed this science component has indicated that the primary purpose for the minor should be consistent with the goals of a liberal or general education, thus viewing the minor as an extension of the current liberal studies requirement. In addition to the 9 credits of science required for the liberal studies requirement, students completing this minor must also take 9 credits in science for the math–science dual minor. With these **18 credits** it is possible to provide a minimal level of breadth and depth of science coursework. This minor is also expected to provide Elementary Education program students with a background in the sciences that are most commonly taught at the middle school level.

Complete the following requirements:

- At least 18 credits from the courses listed below. Additional courses can be considered; please consult with an advisor in Education Academic Services.
- One course in each of three of the four science areas of biology, chemistry, physics, and earth and space science from the approved



list, below. Integrated Liberal Studies 153 does not count in any of the areas, but can count toward the 18 credit total.

- At least 6 credits of coursework from the courses listed below that are **not** marked with an asterisk (\*). Courses with the asterisk are considered to be introductory level courses.

The following courses are approved for inclusion in the science component of the math/science minor:

Code	Title	Credits
ILS 153	Ways of Knowing in the Sciences *	4

### Biology course options

Code	Title	Credits
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#### Biochemistry

All courses numbered 500 and above

#### Biocore

All courses

#### Biology

BIOLOGY/ ZOOLOGY 101	Animal Biology *	3
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BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory *	2
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BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology *	5
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BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5
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#### Botany

BOTANY 100	Survey of Botany *	3
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BOTANY/ PL PATH 123	Plants, Parasites, and People *	3
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BOTANY/ BIOLOGY 130	General Botany *	5
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BOTANY/BIOLOGY/ ZOOLOGY 151	Introductory Biology *	5
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BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
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BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology *	3
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All courses numbered 300 and above

#### Entomology

ENTOM/ ENVIR ST 201	Insects and Human Culture-a Survey Course in Entomology *	3
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All courses numbered 300 and above

#### Forest and Wildlife Ecology

All courses numbered 300 and above

#### Genetics

All courses numbered 400 and above

#### Microbiology

MICROBIO 101	General Microbiology *	3
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MICROBIO 102	General Microbiology Laboratory *	2
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All courses numbered 300 and above

#### Plant Pathology

PL PATH/ BOTANY 123	Plants, Parasites, and People *	3
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All courses numbered 300 and above

Zoology		
ZOOLOGY/ BIOLOGY 101	Animal Biology *	3
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory *	2
ZOOLOGY/BIOLOGY/ BOTANY 151	Introductory Biology *	5
ZOOLOGY/BIOLOGY/ BOTANY 152	Introductory Biology	5
ZOOLOGY/BOTANY/ ENVIR ST 260	Introductory Ecology *	3
ZOOLOGY/ ENTOM 302	Introduction to Entomology	4
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

Courses numbered 350 and above

### Chemistry course options

Code	Title	Credits
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#### Biochemistry

All courses numbered 500 and above

#### Chemistry

CHEM 103	General Chemistry I *	4
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CHEM 104	General Chemistry II	5
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CHEM 108	Chemistry in Our World *	5
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CHEM 109	Advanced General Chemistry *	5
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CHEM 115	Chemical Principles I *	5
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CHEM 116	Chemical Principles II	5
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All courses numbered 300 and above

### Physics course options

Code	Title	Credits
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PHYSICS 103	General Physics *	4
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PHYSICS 104	General Physics	4
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PHYSICS 107	The Ideas of Modern Physics *	3
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All courses numbered 200 and above

### Earth and Space Science course options

Code	Title	Credits
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#### Astronomy

ASTRON 100	Survey of Astronomy *	4
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ASTRON 103	The Evolving Universe: Stars, Galaxies, and Cosmology *	3
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ASTRON 104	Our Exploration of the Solar System *	3
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ASTRON 113	Hands on the Universe (Only if taken concurrently with ASTRON 103) *	1
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ASTRON 114	Hands on the Solar System (Only if taken concurrently with ASTRON 104) *	1
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ASTRON 150	Topics in Astronomy	2
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ASTRON 200	The Physical Universe *	3
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ASTRON 236 The History of Matter in the Universe\* 3

All courses numbered 200 and above

#### Atmospheric and Oceanic Studies

ATM OCN 100 Weather and Climate\* 3

ATM OCN 101 Weather and Climate\* 4

ATM OCN/ENVIR ST/ GEOSCI 102 Climate and Climate Change\* 3

ATM OCN/ GEOSCI 105 Survey of Oceanography\* 3-4

ATM OCN/ ENVIR ST 171 Global Change: Atmospheric Issues and Problems\* 2-3

All courses numbered 200 and above

#### Geography

GEOG/ENVIR ST 120 Introduction to the Earth System\* 3

GEOG/ENVIR ST 127 Physical Systems of the Environment\* 5

All courses numbered 300 and above and designated as Physical Science

#### Geoscience

GEOSCI 100 General Geology\* 3

GEOSCI/ATM OCN/ ENVIR ST 102 Climate and Climate Change\* 3

GEOSCI/ ATM OCN 105 Survey of Oceanography\* 3-4

GEOSCI 107 Life of the Past\* 3

GEOSCI 110 Evolution and Extinction\* 4

GEOSCI 202 Introduction to Geologic Structures 4

GEOSCI 203 Earth Materials 5

GEOSCI 204 Geologic Evolution of the Earth 4

GEOSCI 302 Physics and Chemistry of the Earth's Interior 3

GEOSCI 303 Fluids and Sedimentary Processes 3

GEOSCI 304 Geobiology 3

GEOSCI/GEOG 320 Geomorphology 3

GEOSCI/G L E 370 Elementary Petrology 3

GEOSCI/GEOG 420 Glacial and Pleistocene Geology 3

GEOSCI 430 Sedimentology and Stratigraphy 3

GEOSCI/G L E 455 Structural Geology 4

GEOSCI 456 Geologic Field Methods 2

GEOSCI/GEOG 524 Advanced Landform Geography 3

GEOSCI/GEOG 527 The Quaternary Period 3

All courses numbered 556 and above

## MATHEMATICS, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Mathematics is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor in the department to discuss course selection and other issues related to this field of study. The current list of advisors and the schedule of the office hours can be found at the departmental advising page (<https://www.math.wisc.edu/undergraduate/advising>).

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 28 credits. A minimum cumulative grade point average of 2.75 is required, based on all UW–Madison coursework included in the minor.

Elementary Education students may also wish to consider the Specialized Mathematics minor, which exchanges some of the higher-level mathematics courses for a broader range of coursework in mathematics, computer sciences, and statistics. A mathematics/science dual minor option is also available.

The first 14 credits of the mathematics minor involves calculus-level coursework. Students may need to complete prerequisite coursework—e.g., MATH 112 Algebra, MATH 113 Trigonometry—to reach this proficiency level. These preparatory courses may be used to meet the liberal studies requirement, but may not be applied toward the credits required for the mathematics minor.

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus—Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
STAT 301	Introduction to Statistical Methods	3
MATH 441	Introduction to Modern Algebra	3
MATH 461	College Geometry I	3
MATH 371	Basic Concepts of Math, or approved substitute	3

Because of prerequisites and scheduling issues, the sequencing of this coursework requires careful planning to be completed in a timely fashion. Students are encouraged to consult with an advisor regarding the appropriate sequencing of these courses.

## PHYSICS, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Physics is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor in the physics department to discuss course selection and other issues related to this field of study.

### Physics Undergraduate Advisors

Professor Dan McCammon  
6207 Chamberlin Hall  
608-262-5916

Professor Stefan Westerhoff  
4209 Chamberlin Hall  
608-262-3989

Professor Michael Winokur  
5106 Chamberlin Hall  
608-262-5425

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 22 credits. A minimum cumulative grade point average of 2.75 is required, based on all Physics minor coursework taken on the UW–Madison campus.

## INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Select one option of the following:</b>		
<b>Option 1:</b>		
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	13-14
Select one of the following:		
PHYSICS 205	Modern Physics for Engineers	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	
<b>Option 2:</b>		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
Select one of the following:		
PHYSICS 205	Modern Physics for Engineers	
PHYSICS 241	Introduction to Modern Physics	
PHYSICS 244	Modern Physics (Primarily for ECE Majors)	
<b>Option 3:</b>		
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
PHYSICS 249	A Modern Introduction to Physics	

## ADDITIONAL COURSE REQUIREMENTS

Code	Title	Credits
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	2

PHYSICS 308	Intermediate Laboratory-Electromagnetic Fields and Optics	2
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4

Select physics electives, if necessary, to total 22 credits

## POLITICAL SCIENCE, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Political Science is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor (p. 1021) in the department to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all political science minor coursework taken on the UW–Madison campus.

## REQUIRED COURSES

Code	Title	Credits
Complete any 100-level Political Science course (one course)		
POLI SCI 205	Introduction to State Government	3-4
or POLI SCI 405	State Government and Public Policy	
Statistics		
Complete one of the following:		
POLI SCI 374	Introduction to Statistical Inference for Political Research	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	
SOC/C&E SOC 361	Statistics for Sociologists II	
STAT 224	Introductory Statistics for Engineers	
STAT 301	Introduction to Statistical Methods	
GEN BUS 303	Business Statistics	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
PSYCH 210	Basic Statistics for Psychology	

## DISTRIBUTION REQUIREMENTS

Complete at least one course from each of the four political science groups. Courses taken to meet the requirements above may be applied toward the course distribution.

### POLITICAL THEORY

#### Political Theory course options

Code	Title	Credits
POLI SCI 160	Introduction to Political Theory	3-4
POLI SCI 266	The Development of Modern Western Political Thought	3-4
POLI SCI 360	History of American Political Thought	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 460	Topics in Political Philosophy	3-4
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 560	Feminist Political Theory	3-4
POLI SCI 561	Radical Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4

### AMERICAN GOVERNMENT

#### American Government course options

Code	Title	Credits
POLI SCI 104	Introduction to American Politics and Government	3-4
POLI SCI 184	Introduction to American Politics	3
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 303	Election Campaign Practicum	3
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 308	Public Administration	3-4
POLI SCI 309	Civil Liberties in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 315	Legislative Internship	3
POLI SCI 402	Wisconsin in Washington Internship Course	4
POLI SCI 405	State Government and Public Policy	3-4

POLI SCI 408	The American Presidency	3-4
POLI SCI 409	American Parties and Politics	3-4
POLI SCI 410	Citizenship, Democracy, and Difference	4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 415	The Separation of Powers and Federal Courts	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 507	Health Policy and Health Politics	3-4
POLI SCI 508	American National Security: Policy and Process	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 514	Interest Group Politics	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 516	Political Communications	3-4
POLI SCI/ AFROAMER 519	African American Political Theory	3-4
POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course	4
POLI SCI 490	Study Abroad Topics in Political Science: American Government	1-4

### COMPARATIVE POLITICS

#### Comparative Politics course options

Code	Title	Credits
POLI SCI 120	Politics Around the World	4
POLI SCI 182	Politics Around the World (Honors)	3
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
POLI SCI/GEOG/ HISTORY/LCA/ SOC 252	The Civilizations of India-Modern Period	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
POLI SCI/E A STDS/ HISTORY 255	Introduction to East Asian Civilizations	3-4

POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI 321	Latin-American Politics	3-4
POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 324	Political Power in Contemporary China	3-4
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
POLI SCI/LCA 326	Politics of South Asia	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
POLI SCI 329	African Politics	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 332	German Politics	3-4
POLI SCI 333	International Politics of the Middle East	3-4
POLI SCI 334	Russian Politics	3-4
POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ RELIG ST 433	Religion and Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies	3
POLI SCI 437	Nationalism and Ethnic Conflict	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 537	Electoral Systems and Representation	3-4
POLI SCI 538	Politics and Policies in the European Union	3-4
POLI SCI 635	Comparative Politics of Sport	3-4

POLI SCI 637	Comparative Political Economy	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

## INTERNATIONAL RELATIONS

### International Relations course options

Code	Title	Credits
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 346	China in World Politics	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 351	Politics of the World Economy	3-4
POLI SCI 353	The Third World in the International System	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 455	African International Relations	3-4
POLI SCI 652	The Politics of Development	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4

## ELECTIVES

Complete additional coursework, if necessary, to reach the minimum of 24 credits.

## PORTUGUESE, BSE

Student access to the Portuguese Education certification program is dependent upon available supervisory and cooperating teacher resources. For this reason, prospective Portuguese Education students must consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651. Students who do not have previous teaching experience or have not completed a teacher preparation program should expect to participate in the four-semester World Language Education program. Teacher candidates with extensive coursework or teaching experience may complete a modified program after consultation with faculty. Admission to the four-semester professional program entails meeting minimum admission requirements and adherence to strict application deadlines. See the WLE program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building, to determine the feasibility of completing certification in this language.

## WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from underrepresented groups to apply for admissions to the program. The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;
- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a Bachelor of Science degree in Education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

### HOW TO GET IN

## PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

## ENTERING THE SCHOOL OF EDUCATION NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1399)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

## PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective

applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System's Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

## APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test

(formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).

- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete

the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

### PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.
- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

### CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods course work and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.



## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## MAJOR REQUIREMENTS

Complete a minimum of 40 credits. At least 15 credits of upper-level major coursework (numbered 300 and above) must be taken in residence on the UW–Madison campus.

### INTRODUCTORY-LEVEL COURSE REQUIREMENTS

Complete the following or demonstrate proficiency at the equivalent levels.

Code	Title	Credits
PORTUG 101	First Semester Portuguese	4
PORTUG 102	Second Semester Portuguese	4
PORTUG 201	Third Semester Portuguese	4
PORTUG 202	Fourth Semester Portuguese	4
PORTUG 221	Introduction to Luso-Brazilian Literatures	4
PORTUG 225	Third Year Conversation and Composition	3
PORTUG 226	Third Year Conversation and Composition	3

### UPPER-LEVEL COURSE REQUIREMENTS

Select 16 credits from the following list; 4 must be in Composition and Conversation. Placement in advanced composition and conversation will be based upon proficiency. Additional courses may be substituted with the program advisor's permission.

Code	Title	Credits
PORTUG 311	Fourth Year Composition and Conversation	3
PORTUG 312	Fourth Year Composition and Conversation	3
PORTUG 361	Portuguese Civilization	3
PORTUG 362	Brazilian Civilization	3
PORTUG 411	Survey of Portuguese Literature before 1825	3
PORTUG 412	Survey of Brazilian Literature before 1890	3
PORTUG 467	Survey of Portuguese Literature since 1825	3
PORTUG 468	Survey of Brazilian Literature since 1890	3

Students expecting to become teachers of Portuguese should also elect courses in related fields, such as history, political science, or sociology. Consult the Latin American, Caribbean, and Iberian Studies Program (<http://www.lacis.wisc.edu>) for a complete listing of related courses. Students should also seek opportunities to work with children and young adults in positions of volunteer/leadership, such as camp counselor, day camp leader, teacher aid, tutor, etc. Prospective teachers should also take every opportunity to increase their oral mastery of the target language, Portuguese.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience (second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with

the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

## PROFESSIONAL SEQUENCE REQUIREMENTS

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442	Student Teaching in World Languages (K-8) <sup>2</sup>	6
or CURRIC 443	Student Teaching in World Languages (6-12)	
<i>Other Courses</i>		
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
<b>Semester 3</b>		
<i>Required Courses</i>		
CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	
<i>Other Courses</i>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	
<b>Semester 4</b>		
<i>Required Courses</i>		
CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

<sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field

experiences service area and may not necessarily be in the city of Madison.

- <sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.
- <sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)
- <sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule ([https://pubs.wisc.edu/ug/education\\_policy.htm#last60](https://pubs.wisc.edu/ug/education_policy.htm#last60)).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework
- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

### DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of

study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW-Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1405)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language

on the ACTFL OPI scale as measured by two independent external evaluators.

2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### PORTUGUESE EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Portuguese. Students may want to consult the undergraduate advisor (<http://spanport.wisc.edu/undergraduate/advising>) in the Spanish and Portuguese department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and Spanish and Portuguese (<http://spanport.wisc.edu/home>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3

BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre–Student Teaching Practicum

The pre–student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not

assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre–student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).

- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without

written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.



- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.

- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence level*. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.

- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## PORTUGUESE, SED MINOR

### HOW TO GET IN

This minor is only available to students admitted to the World Language Education program, or to teachers already licensed to teach at an appropriate level and subject in Wisconsin. Undergraduate students interested in completing a certification minor in Portuguese must also complete a major in another World Language certification subject area and be admitted to the World Language Education program. It is not possible to be certified only in a minor area. Consult with an Education Academic Services advisor to discuss the feasibility of combining this minor with the major subject area—not all combinations may be possible and will require approval of the WLE program coordinator. Interested students must apply and be admitted to both language subject areas. The oral proficiency exam, any written exams, and the immersion experience required for certification must be completed in both languages.

Licensed teachers interested in pursuing certification in this minor should consult with the World Language Education program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### REQUIREMENTS

Note: The oral proficiency exam, any written exams, and an immersion experience are required for certification in this language. Consult the major requirements (p. 1400) in this subject for an explanation of these requirements and the World Language Education professional sequence.

### MINOR REQUIREMENTS

Complete a minimum of 30 credits. The Portuguese minor also requires a minimum cumulative grade point average of 2.75, based on all Portuguese minor coursework taken on the UW–Madison campus. Students may exempt from a course requirement based on demonstrated proficiency at that level.

Code	Title	Credits
PORTUG 101	First Semester Portuguese	4
PORTUG 102	Second Semester Portuguese	4
PORTUG 201	Third Semester Portuguese	4
PORTUG 202	Fourth Semester Portuguese	4
PORTUG 221	Introduction to Luso-Brazilian Literatures	4
PORTUG 225	Third Year Conversation and Composition	3
PORTUG 226	Third Year Conversation and Composition	3

### ADVISING AND CAREERS

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Portuguese. Students may want to consult the undergraduate advisor (<http://spanport.wisc.edu/>

undergraduate/advising) in the Spanish and Portuguese department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

## PSYCHOLOGY, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Psychology is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor (p. 1030) in the department to discuss course selection and other issues related to this field of study.

### HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

### REQUIREMENTS

Complete a minimum of 26 credits. A minimum cumulative grade point average of 2.75 is required, based on all psychology minor coursework taken at UW–Madison. Students wishing to complete an additional major in psychology through the College of Letters & Science must also complete supporting coursework in introductory biology (e.g., BIOLOGY/ZOOLOGY 101 and BIOLOGY/ZOOLOGY 102).

Code	Title	Credits
PSYCH 201 or PSYCH 202	Introduction to Psychology	3-4
PSYCH 210	Basic Statistics for Psychology	3
PSYCH 225	Research Methods	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH/SOC 456	Introductory Social Psychology	3-4
PSYCH 507 or PSYCH/ GEN&WS 522	Psychology of Personality Psychology of Women and Gender	3
Select one of the following:		3
PSYCH 408	Psychology of Human Emotions	
PSYCH 414	Cognitive Psychology	
PSYCH 430	History of Psychology	
Select one of the following:		3-4
PSYCH 449	Animal Behavior	
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	
PSYCH 454 & PSYCH 455	Behavioral Neuroscience and Laboratory in Behavioral Neuroscience	

Select additional coursework, if necessary, to reach the minimum of 26 credits

<sup>1</sup> Note: Effective fall 2017, the course number of Abnormal Psychology changed from Psych 509 to Psych 405. The course number of Social Psychology changed from Psych 530 to Psych 456.

## SCIENCE SPECIALIZED, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

### HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

### REQUIREMENTS

Complete a minimum of 22 credits selected from one or more of the following areas. Courses must be taken from the departments indicated. A minimum 2.75 grade point average is required, based on all UW–Madison coursework included in this minor.

- Biology: Departments of Botany (<http://guide.wisc.edu/courses/botany>), Zoology (<http://guide.wisc.edu/courses/zoology>), and Bacteriology (<http://guide.wisc.edu/courses/microbio>) (Microbiology course listings)
- Chemistry: Departments of Chemistry (<http://guide.wisc.edu/courses/chem>) and Biochemistry (<http://guide.wisc.edu/courses/biochem>)
- Physics: Department of Physics (<http://guide.wisc.edu/courses/physics>)
- Earth Science: Departments of Astronomy (<http://guide.wisc.edu/courses/astron>), Geography (<http://guide.wisc.edu/courses/geog>) (Physical Geography courses designated as Physical Science only), Geoscience (<http://guide.wisc.edu/courses/geosci>), and Atmospheric and Oceanic Sciences ([http://guide.wisc.edu/courses/atm\\_ocn](http://guide.wisc.edu/courses/atm_ocn)).

At least 10 of the 22 credits must be numbered 200 and above.

## SOCIAL STUDIES, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students may wish to consult with an advisor in Education Academic Services, 139 Education Building, 608-262-1651, to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

The social studies minor is designed for students interested in becoming Middle Childhood through Early Adolescence (Grades 1–8) teachers with a specialty in social studies.

Complete 24 credits to include the requirements listed below. A minimum 2.75 grade point average is required, based on all UW–Madison course work included in the social studies minor. The courses listed here will meet this requirement, but additional courses may be considered. Confer with an advisor in Education Academic Services, 139 Education Building, 1000 Bascom Mall, 608-262-1651, for consideration of additional courses.

Some courses may be listed in multiple categories, but can count in only one.

## HISTORY/CIVILIZATIONS UNITED STATES OR EUROPEAN HISTORY

Select one course from the following. Courses have been selected from the departments of Afro-American Studies, American Indian Studies, Asian American Studies, Chican@ and Latin@ Studies, and History.

### United States or European History course options

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/ MUSIC 310	Black Music (1920-Present): The Trumpet	2
AFROAMER/ MUSIC 311	Black Music (1920-Present): The Saxophone	2
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3

AFROAMER/ MUSIC 509	Seminar in Afro-American Music History and Criticism	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3

### American Indian Studies

AMER IND 100	Introduction to American Indian Studies	3
AMER IND 250	Indians of Wisconsin	3
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND 320	Native Peoples of the Southwest	3
AMER IND/ SOC WORK 658	American Indian Affairs	2-3

### Asian American Studies

ASIAN AM/CHICLA/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	3-4
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	3-4
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM/HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	4

### Chican@ and Latin@ Studies

CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/ GEN&WS 425	Chicana and Latina Feminisms, Arts, and Media	3
CHICLA/ HISTORY 461	The American West to 1850	3-4
CHICLA/ HISTORY 462	The American West Since 1850	3-4
CHICLA 519	Transnational and Comparative Working-Class Cultures	3-4

### U.S. History

HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 102	American History, Civil War Era to the Present	4
HISTORY 150	American Histories: The Nineteenth Century	4

HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	<b>European History</b>		
HISTORY 221	Explorations in American History (H)	3-4	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 272	History Study Abroad: United States History	1-4	HISTORY 115	Medieval Europe 410-1500	4
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY 119	The Making of Modern Europe 1500-1815	4
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 343	Colonial British North America	3-4	HISTORY 123	English History: England to 1688	3-4
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4	HISTORY 124	British History: 1688 to the Present	4
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4	HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4	HISTORY/ MEDIEVAL 215	Life in the Middle Ages: An Inter-Departmental Course	3-4
HISTORY 355	Work, Freedom and Democracy in the Americas, 1491-the Present	3	HISTORY 223	Explorations in European History (H)	3-4
HISTORY 391	The Age of Jefferson and Jackson, 1789-1848	3-4	HISTORY 224	Explorations in European History (S)	3
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
HISTORY/HIST SCI/ MED HIST 394	Science in America	3	HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
HISTORY 403	Immigration and Assimilation in American History	3-4	HISTORY 271	History Study Abroad: European History	1-4
HISTORY 408	American Labor History: 1900-Present	3-4	HISTORY 303	A History of Greek Civilization	3-4
HISTORY/ ED POL 412	History of American Education	3	HISTORY 307	A History of Rome	3-4
HISTORY/ JEWISH 416	Eastern European Jews in the United States, 1880s-1930s	3-4	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	HISTORY/ MEDIEVAL/ RELIG ST 312	The Medieval Church	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4	HISTORY/ MEDIEVAL 313	Introduction to Byzantine History and Civilization	3-4
HISTORY/ CHICLA 461	The American West to 1850	3-4	HISTORY/ MEDIEVAL 314	Problems in Byzantine History and Civilization	3-4
HISTORY/ CHICLA 462	The American West Since 1850	3-4	HISTORY/ MEDIEVAL/ RELIG ST 318	Medieval Social and Intellectual History, 1200-1450	3-4
HISTORY/ECON 465	The American Economy to 1865	3-4	HISTORY 320	Early Modern France, 1500-1715	3-4
HISTORY/ECON 466	The American Economy Since 1865	3-4	HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY/ CHICLA 468	Popular Culture in the Multi-racial United States	3-4	HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3
HISTORY/ AMER IND 490	American Indian History	3-4	HISTORY/ HIST SCI 324	Science in the Enlightenment	3
HISTORY/HIST SCI/ MED HIST 504	Society and Health Care in American History	3	HISTORY 333	The Renaissance	3-4
HISTORY/ JOURN 560	History of Mass Communication	4	HISTORY/ RELIG ST 334	The Reformation	3-4
HISTORY/L I S 569	History of American Librarianship	3	HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4

HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY 351	Seventeenth-Century Europe	3-4	HISTORY/ RELIG ST 512	The Enlightenment and Its Critics	3
HISTORY 352	Eighteenth Century Europe	3-4	HISTORY 514	European Cultural History Since 1870	3-4
HISTORY 357	The Second World War	3-4	HISTORY/CURRIC/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY 358	French Revolution and Napoleon	3-4	HISTORY/CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 359	History of Europe Since 1945	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3	HISTORY/JEWISH/ RELIG ST 529	Intellectual and Religious History of European Jewry, 1648-1939	4
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4	HISTORY 540	Balkans and Middle East, 1700-1918: The Rise of National States	3-4
HISTORY/ E A STDS 363	China and World War II in Asia	3-4	HISTORY/CLASSICS/ HIST SCI/MED HIST/ S&A PHM 561	Greek and Roman Medicine and Pharmacy	3
HISTORY 367	Society and Ideas in Shakespeare's England	3-4	HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
HISTORY/JEWISH/ MEDIEVAL/ RELIG ST 368	The Bible in the Middle Ages	3	<b>WORLD/GLOBAL OR NON-WESTERN HISTORY</b>		
HISTORY/ JEWISH 373	Modern Political History of the Jews: 1655-1919	4	Select one course from the following. Courses have been selected from the Department of History.		
HISTORY/ JEWISH 374	Modern Political History of the Jews: Era of Mass Movements, 1870-1970	4	<b>World/Global or Non-Western History course options</b>		
HISTORY 410	History of Germany, 1871 to the Present	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
HISTORY 417	History of Russia	3-4	<b>History</b>		
HISTORY 418	History of Russia	3-4	HISTORY/ E A STDS 103	Introduction to East Asian History: China	3-4
HISTORY 419	History of Soviet Russia	3-4	HISTORY/ E A STDS 104	Introduction to East Asian History: Japan	3-4
HISTORY 420	Russian Social and Intellectual History	3-4	HISTORY 105	Introduction to the History of Africa	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4	HISTORY 130	An Introduction to World History	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4	HISTORY 135	Colloquium in Comparative World History	4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4	HISTORY 139	The Middle East in the 20th Century	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3	HISTORY 142	History of South Asia to the Present	3-4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3	HISTORY/LCA/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 437	Western Christianity from Augustine to Darwin	4	HISTORY 225	Explorations in Third World History (H)	3-4
HISTORY 467	Economic and Social History of Europe 1500-1750	3-4	HISTORY 241	Latin America from 1780 to 1940	4
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4	HISTORY 242	Modern Latin America, 1898 to the Present	4
HISTORY/ RELIG ST 470	Religious Thought in Modern Europe	3-4	HISTORY/GEOG/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY 474	European Social History, 1830-1914	3-4	HISTORY/GEOG/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
HISTORY 475	European Social History, 1914-Present	3-4	HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3			
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4			

HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 319	The Vietnam Wars	3-4
HISTORY 332	Islam Reform and Revolution in Central Asia	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ E A STDS 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ E A STDS 341	History of Modern China, 1800-1949	3-4
HISTORY/ E A STDS 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY 377	History of Africa, 1500 to 1870	3-4
HISTORY 378	History of Africa Since 1870	3-4
HISTORY/ RELIG ST 379	Islam in Iran	3

## LANDS/PEOPLE

### UNITED STATES OR EUROPE

Select one course from the following. Courses have been selected from the departments of Afro-American Studies, American Indian Studies, Anthropology, Asian American Studies, Chican@ and Latin@ Studies, Geography, and Sociology.

#### United States or European course options

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 151	Introduction to Contemporary Afro-American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4

AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ GEN&WS 333	Black Feminisms	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ ASIAN AM 443	Mutual Perceptions of Racial Minorities	3
AFROAMER/ POLI SCI 519	African American Political Theory	3-4
AFROAMER/HDFS/ SOC WORK 521	African American Families	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3
AFROAMER 673	Selected Topics in Afro-American Society	3

#### American Indian Studies

AMER IND 100	Introduction to American Indian Studies	3
AMER IND 250	Indians of Wisconsin	3
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ ANTHRO 353	Indians of the Western Great Lakes	3
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	3
AMER IND/ANTHRO/ FOLKLORE/ GEN&WS 437	American Indian Women	3
AMER IND/LSC 444	Native American Environmental Issues and the Media	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/ HDFS 522	American Indian Families	3
AMER IND/C&E SOC/ SOC 578	Poverty and Place	3
AMER IND/ SOC WORK 658	American Indian Affairs	2-3

#### Anthropology

ANTHRO 104	Cultural Anthropology and Human Diversity	3
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#### Asian American Studies

ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3

ASIAN AM/ E A STDS/ HISTORY 276	Chinese Migrations since 1500	3-4
ASIAN AM/ COM ARTS 420	Asian Americans and Media	3
ASIAN AM/ AFROAMER 443	Mutual Perceptions of Racial Minorities	3
ASIAN AM 540	Special Topics	3
ASIAN AM/ JOURN 662	Mass Media and Minorities	4
<b>Chican@ and Latin@ Studies</b>		
CHICLA/ASIAN AM/ FOLKLORE 102	Introduction to Comparative Ethnic Studies	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
CHICLA 210	Chicana/o and Latina/o Cultural Studies	3
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	3
CHICLA/ COM ARTS 419	Latino/as and Media	3
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
CHICLA/ SOC WORK 657	Understanding Latino Families and Communities	3
<b>Geography</b>		
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
GEOG 342	Geography of Wisconsin	3
GEOG 344	The American West	3
GEOG 349	Europe	3
<b>Sociology</b>		
SOC 120	Marriage and Family	3-4
SOC 125	American Society: How It Really Works	3-4
SOC 134	Problems of American Racial and Ethnic Minorities	3-4
SOC 138	The Sociology of Gender	3-4
SOC 170	Population Problems	3-4

## GLOBAL COMPARATIVE OR NON-WESTERN CULTURES

Select one course from the following. Courses have been selected from the departments of Anthropology, Asian American Studies, East Asian Area Studies, Folklore, Geography, History, Languages and Cultures of Asia, Latin American, Caribbean, and Iberian Studies, and Sociology.

<b>Global Comparative or Non-Western Cultures course options</b>		
Code	Title	Credits
<b>Anthropology</b>		
ANTHRO 100	General Anthropology	3
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
<b>Asian American Studies</b>		
ASIAN AM/HISTORY/ LCA 246	Southeast Asian Refugees of the "Cold" War	4
<b>East Asian Area Studies</b>		
E A STDS/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
E A STDS/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
<b>Folklore</b>		
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
<b>Geography</b>		
GEOG 101	Introduction to Human Geography	4
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 301	Geography of Social Organization	3
GEOG 302	Economic Geography: Locational Behavior	4
GEOG/URB R PL 305	Introduction to the City	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG 318	Introduction to Geopolitics	3
GEOG/ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context	3
GEOG 348	Latin America	4
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4



GEOG 501	Space and Place: A Geography of Experience	3
<b>History</b>		
HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
<b>Languages and Cultures of Asia</b>		
LCA/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
LCA/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
LCA/GEOG/ HISTORY/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
LCA 266	Introduction to the Middle East	3
LCA/RELIG ST 355	Hinduism	4
LCA/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LCA/HISTORY 450	Making of Modern South Asia	3-4
LCA/ANTHRO 462	Anthropology of South Asia	3
<b>Latin American, Caribbean, and Iberian Studies</b>		
LACIS/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
<b>Sociology</b>		
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC 170	Population Problems	3-4

## ELECTIVES

Choose additional electives to reach the minimum of 24 credits. Electives must be chosen from the departments of Economics (<http://guide.wisc.edu/courses/econ>), Geography (<http://guide.wisc.edu/courses/geog>), History (<http://guide.wisc.edu/courses/history>), Political Science ([http://guide.wisc.edu/courses/poli\\_sci](http://guide.wisc.edu/courses/poli_sci)), Psychology (<http://guide.wisc.edu/courses/psych>) and Sociology (<http://guide.wisc.edu/courses/soc>).

## RECOMMENDED COURSE OPTIONS

It is strongly recommended to take at least one of the following non-Western interdisciplinary courses while meeting the minor requirements.

Code	Title	Credits
GEOG/HISTORY/ LCA/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4

GEOG/HISTORY/ LCA/POLI SCI/ SOC 252	The Civilizations of India-Modern Period	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY/E A STDS/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/LCA 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3

## SOCIOLOGY, MINOR

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Sociology is housed in the College of Letters & Science. Students may wish to consult with the undergraduate advisor (p. 1085) in the department to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all sociology minor coursework taken on the UW-Madison campus.

## FOUNDATIONAL CORE COURSES

### INTRODUCTION

Select one of the following:

Code	Title	Credits
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4

### RESEARCH METHODS AND STATISTICS

Select one of the following combinations. Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, it is recommended that methods be

taken before statistics. This will provide a better entry point to the methods and materials of the field.

Code	Title	Credits
<b>Option 1</b>		
SOC/C&E SOC 360 & SOC/C&E SOC 357	Statistics for Sociologists I and Methods of Sociological Inquiry	7-8
<b>Option 2</b>		
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
One of the following statistics courses:		3-4
ECON 310	Statistics: Measurement in Economics	
GEN BUS 303	Business Statistics	
GEOG 360	Quantitative Methods in Geographical Analysis	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
POLI SCI 374	Introduction to Statistical Inference for Political Research	
PSYCH 210	Basic Statistics for Psychology	
PSYCH 280	Honors Basic Statistics for Psychology	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

## THEORY

Code	Title	Credits
SOC/C&E SOC 475	Classical Sociological Theory	3

## DISTRIBUTION REQUIREMENTS

Select **at least one course from two of the following groups** of departmental offerings. Courses used to meet the requirements above may not be applied to this requirement. Courses that appear in more than one area may fulfill only one area requirement.

## ADDITIONAL METHODS/STATISTICS

### Additional Methods/Statistics course options

Code	Title	Credits
SOC/C&E SOC 361	Statistics for Sociologists II	3
SOC 362	Statistics for Sociologists III	3
SOC/C&E SOC 365	Data Management for Sociological Research	3-4
SOC 375	Introduction to Mathematical Sociology	3
SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## ADDITIONAL THEORY

### Additional Theory course options

Code	Title	Credits
SOC 476	Contemporary Sociological Theory	3
SOC/GEN&WS 477	Feminism and Sociological Theory	3
SOC 462	Study Abroad in Additional Theory <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## DEVIANT BEHAVIOR

### Deviant Behavior course options

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/SOC WORK 422	Social Issues in Aging	3
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## SOCIAL PSYCHOLOGY

### Social Psychology course options

Code	Title	Credits
SOC/PSYCH 350	Human Sexuality	4
SOC/PSYCH 456	Introductory Social Psychology (formerly numbered 530)	3-4
SOC 531	Sociology of Medicine	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC 464	Study Abroad in Social Psychology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## SOCIAL ORGANIZATION

### Social Organization course options

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3

SOC/C&E SOC/ GEN&WS 601	Sociology of Work, Family, and Gender	3
SOC/C&E SOC 610	Knowledge and Society	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/LCA/ RELIG ST 614	Social Structures of Muslim Societies	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 620	Comparative Racial Inequality	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC/C&E SOC 622	Advanced Topics in Critical Sociology	3
SOC/C&E SOC 623	Gender, Society, and Politics	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC/LCA/ RELIG ST 634	Social Structure of India	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC 643	Sociology of Occupations and Professions	3
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 649	Sociology of Work and Employment	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/C&E SOC 655	Microfoundations of Economic Sociology	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3
SOC 465	Study Abroad in Social Organization <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## DEMOGRAPHY AND ECOLOGY

### Demography and Ecology course options

Code	Title	Credits
SOC/C&E SOC/ POP HLTH 380	Contemporary Population Problems for Honors	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3

SOC 674	Demographic Techniques I	3
SOC 460	Study Abroad in Demography and Ecology <sup>3</sup>	1-6

<sup>3</sup> This is a course, taken abroad, which does not equate to one of our courses exactly, but could be a UW–Madison sociology course in the designated area.

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY

### Community and Environmental Sociology course options

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

## ELECTIVES

Additional coursework, if needed, to reach the minimum of 24 credits.

## SPANISH, BSE

### WORLD LANGUAGE EDUCATION PROGRAM (CURRENTLY CHINESE, FRENCH, GERMAN, JAPANESE, LATIN, AND SPANISH MAJORS)

The mission of the World Language Education (WLE) program is (1) to promote a community-based approach to world language instruction; (2) to educate teachers who understand different cultures, are proficient in their languages, routinely visit other countries, and can build bridges across nations, races, socioeconomic groups, cultures, and languages; and (3) to certify teachers who are prepared to serve the global needs of increasingly multicultural and multilingual schools and are strongly committed to act for a world in which shared understanding through conflict resolution, negotiation and communication are guiding principles.

There is a growing need for multilingual teachers from diverse backgrounds. The WLE faculty encourages qualified applicants from under-represented groups to apply for admissions to the program. The director of the World Language Education program is Professor François Tochon, ftochon@education.wisc.edu, 544C Teacher Education Building.

The objectives of the K–12 WLE program are

- to provide a philosophy of action designed to promote thoughtful curriculum development and classroom teaching in WLE;

- to provide regular contacts with the global community and in-service teachers in schools through field evenings, workshops, conferences, and other professional meetings;
- to provide clinical settings which enhance opportunities for beginning teachers to develop skillful practice and build bridges across languages, cultures, races, and nationalities;
- to help student teachers use multilingual educational technologies and document their experiences in electronic portfolios and implement research-based practices in their teaching;
- to provide university instructors and supervisors who are well-versed in WLE, who have an international orientation, and who are both approachable and helpful to student teachers.

Program majors include Chinese, French, German, Japanese, Latin, and Spanish, and may also include Italian and Portuguese if field placements are available in these subject areas. Completion of the WLE program leads to a Bachelor of Science degree in Education with a major in the specific subject area. Wisconsin state licensing regulations require that students are licensed to teach at the early childhood through adolescence (approximately kindergarten through high school) levels.

Oral and written examinations are required for all world language teacher candidates enrolled in Wisconsin educator preparation programs, as is an extensive immersion experience. (Students becoming certified to teach Latin are exempt from both the Oral Proficiency Exam and immersion experience requirement.)

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the World Language Education program once a year, effective in the fall. Selection is made the previous spring.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in World Language Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in World Language Education receive the pre-professional classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1421)). It is not necessary to be a pre-professional student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall; call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### NATIVE AND HERITAGE SPEAKERS

Native or heritage speakers of a language major offered within the World Language Education program are welcome to pursue admission to the World Language Education program. Prospective applicants and transfer students who have previous experience with a language are encouraged to consult with an advisor in Education Academic Services as early as possible; to schedule, call 608-262-1651.

Native or heritage speakers must take a placement exam in the corresponding language to determine the appropriate level of remaining instruction in grammar, communication standards and social customs, and other topics related to language acquisition and proficiency. Placement examinations for Spanish, French, and German are offered on campus through Testing & Evaluation Services or the University of Wisconsin System’s Regional Placement Testing Program. Placement examinations for Chinese, Japanese, Italian, Latin, and Portuguese are administered by faculty or staff within the relevant academic department. For more information regarding placement in language courses, consult the Languages at UW–Madison placement guide (<http://languages.wisc.edu/advising/placement>).

### APPLICATION AND ADMISSION

Applicants to the World Language Education program will be selected once a year, during the spring semester. Admission decisions will be based on coursework completed through the preceding fall semester. Admission is provisional until spring semester work has been completed and posted, and Education Academic Services staff have verified that students have submitted basic skills test scores, met minimum grade

point averages, and earned minimum credits in their major. Admitted students will begin the sequence the following fall semester.

Resources limit the number of students who can be served by the UW–Madison World Language Education teacher education program. In recent years the World Language Education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to World Language Education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## ELIGIBILITY FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission, students must:

- earn 54 or more transferable semester credits (junior standing) by the end of the spring semester of the application year.
- complete all but six credits of the relevant World Language major.
- earn a minimum 2.75 grade point average on all major coursework completed.
- earn a cumulative GPA of at least 2.75 (on a 4.00 scale).<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- have completed, or be in the process of completing, an approved Immersion Experience required for the World Language Education degree program.
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established

by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1227).

## APPLYING FOR CERTIFICATION IN MORE THAN ONE SUBJECT AREA

Students may apply to be certified in more than one language. Eligibility requirements must be met and separate applications must be filed for each area of interest. Students must be admitted as a major in at least one of the program areas as it is not possible to be admitted only to complete a minor.

Students interested in combining the World Language Education degree program with certification in another area altogether must apply to both programs and meet the minimum criteria for admission to each program. It is suggested that students apply as majors in each area of interest, thus maximizing the chances of admission. Certification in two different areas requires the consent and cooperation of the World Language Education program coordinator and the faculty coordinator of the other subject area. Not all subjects can be combined with the World Language Education degree program.

While multiple majors or major–minor combinations are feasible and may be advantageous as a career strategy, it may take extra time to complete the additional subject area coursework. Students are encouraged to work closely with their Education Academic Services advisor to assess the possibility of completing certification in more than one area and to coordinate the requirements of multiple certifications.

## PROGRAM ADMISSION SELECTION CRITERIA

The files of all applicants will be individually and holistically reviewed by a panel of World Language professionals. The criteria used for admission include the following:

- **Academic Qualifications:** The applicant demonstrates mastery of the target language and knowledge of its literature, civilization, and culture.
- **Career Maturity:** The applicant demonstrates commitment to teaching the target language to elementary, middle, and high school students, including consideration of his or her own strengths and limitations as a potential teacher.
- **Ability to Relate to Youth:** The applicant demonstrates the ability to work effectively with young people.
- **Commitment to All Students:** The applicant demonstrates commitment to working with all students including those of different racial, ethnic, and socioeconomic backgrounds, and students with disabilities, not just the economically privileged or highly motivated.

- **Interpersonal Skills:** The applicant demonstrates the ability to work effectively with peers, other professionals, and members of the community outside of school settings.

The application files, including immersion experiences and oral proficiency, are rated according to the above criteria for each language. A final cohort is selected along with rank-ordered alternates, based on a combination of ratings made by the World Language Education review committee and judgement by the faculty program coordinator about optimal cohort characteristics for each language. The availability of field placements in the subject area may also influence the selection process. Admission procedures are reviewed every other year to ensure fairness and effectiveness.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

This program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Prerequisite coursework* prepares students for work in the major. Program applicants must also complete and document an *immersion experience* as a prerequisite to being admitted to the professional program.
- *Major coursework* offers in-depth study of the subject students will teach.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a four-semester sequence of world language teaching methods coursework and field experiences in schools.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

The four semesters of professional coursework are followed sequentially and taken in consecutive semesters. Because of the program structure, students are expected to have completed most of their major and liberal studies coursework by the start of the professional sequence.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education

program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PREREQUISITE COURSEWORK

Complete the following courses or demonstrate proficiency at the equivalent levels. Prerequisite courses do not count toward the credits required of the major.

Code	Title	Credits
SPANISH 101	First Semester Spanish	4
SPANISH 102	Second Semester Spanish	4
SPANISH 203	Third Semester Spanish	4
SPANISH 204	Fourth Semester Spanish	4
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3

## MAJOR REQUIREMENTS

Complete 27 credits of Spanish courses numbered 300 and above, to include the requirements below. At least 15 credits of upper-level major coursework (numbered 220 and above) must be completed in residence on the UW–Madison campus to meet the major residency requirement.

Code	Title	Credits
SPANISH 311	Advanced Language Practice	3
SPANISH 320	Spanish Phonetics	3
SPANISH 361	Spanish Civilization	3
or SPANISH 363	Spanish American Civilization	
Select one Spanish language practice course at or above the 300 level <sup>1</sup>		
Select one Spanish linguistics course at or above the 300 level <sup>2</sup>		
Select 6 credits of Spanish department literature 300 level or above to include one survey course		
Select 6 credits of electives in Spanish department coursework, 300 level or above		
Select additional credits 300 level or above as necessary to total 27 additional credits		

<sup>1</sup> SPANISH/INTL BUS 329 Spanish for Business and SPANISH 359 Spanish Business Area Studies are excluded.

<sup>2</sup> SPANISH 327 Introduction to Spanish Linguistics and SPANISH 331 Spanish Applied Linguistics are highly recommended.

## ORAL AND WRITTEN PROFICIENCY EXAMS

### ABOUT THE ORAL AND WRITTEN PROFICIENCY EXAMS

Students admitted to the World Language Education program must provide evidence of having earned at least an Intermediate High score on an American Council on the Teaching of Foreign Languages (ACTFL) **Oral Proficiency Interview (OPI)**. Latin Education students are exempt from this requirement, see below.

The interview must be taken prior to beginning the first student teaching experience (second semester of the professional sequence). Students should be aware that it may take as long as three months to obtain results, and factor this delay into the scheduling of the OPI. If the score of Intermediate High is not made after the first examination, a student will be asked to take measures to improve their spoken language proficiency before continuing in the program. The student must repeat the OPI and achieve the required Intermediate High proficiency level.

All students in World Language Education (except Latin Education), are also required to complete the **Writing Proficiency Test (WPT)** no later than the third semester in the program. A proficiency level of Intermediate High is also required for this examination. Students must take and pass the WPT in their program area and the scores must be received by Education Academic Services before beginning the final student teaching semester. Students who do not take and pass the exam will not be permitted to student teach. The WPT meets the Department of Public Instruction's content exam requirement, a requirement usually met by taking the appropriate Praxis II test.

Both the Oral Proficiency Interview and the Writing Proficiency Test are administered by Language Testing International (LTI) (<http://www.languagetesting.com>). Their address is LTI, 3 Barker Avenue, Suite 310, White Plains, NY 10601; 800-486-8444. Students are responsible for costs associated with the OPI and the WPT.

Students seeking Latin certification will be required to take a proficiency exam administered by the Department of Classical and Ancient Near Eastern Studies prior to beginning the first student teaching experience

(second semester of the professional sequence). This exam will take the place of the OPI and WPT required for certification in other languages.

See the World Language Education faculty program coordinator with questions about these requirements.

## IMMERSION EXPERIENCE

### ABOUT THE IMMERSION EXPERIENCE

Participation in an intensive immersion experience is one of the most important and meaningful ways of developing competence in a language. In preparation for the proficiency exams, students seeking certification in a language must participate in an approved immersion experience which emphasizes prolonged and intensive interaction within the target language and culture.

Program applicants completing French, German, and Spanish majors must complete and document a full-semester (or minimum four-month-long) immersion experience as a prerequisite to being admitted to the professional program. Students completing majors in Chinese and Japanese must spend at least one academic year living in China or Japan, respectively—also a prerequisite to being admitted to the professional program.

The immersion experience must be completed by July 15 preceding the program start. The experience must also have been completed no more than three years before this date.

An approved experience involves significant interaction and day-to-day functioning in the host language, including use of the target language on a daily basis such as in college-level courses, a training program, or a work experience. The immersion experience need not involve attendance in an academic program only, but may take some form such that the language of routine communication is the target language. Simply living with relatives or traveling as a tourist is not considered an immersion experience for the purposes of admission to this program. Most students choose to participate in a structured educational or exchange immersion program.

Students should consult with the International Academic Programs (IAP) (<http://www.studyabroad.wisc.edu>) office, 106 Red Gym, regarding campus-based study abroad programs. These experiences need not receive prior approval. Experiences through off-campus programs must have prior approval of the World Language Education faculty program coordinator. To obtain prior immersion experience approval, download and complete the approval form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/forms>), meet with the faculty coordinator, and obtain authorization. Bring two copies of the form to your meeting, obtain signatures on both, and leave one copy with the coordinator.

Native speakers are normally considered to have fulfilled this requirement without further documentation, especially if they received their secondary education in an environment where the target language is the primary means of communication. Heritage speakers are usually considered to have fulfilled this requirement; applicants must consult with the program coordinator about this requirement.

## PROFESSIONAL EDUCATION REQUIREMENTS (PROFESSIONAL SEQUENCE)

### ABOUT THE PROFESSIONAL SEQUENCE

The professional program is typically a full-time, four-semester sequence of education courses and school-based field experiences. The four semesters of required professional coursework must be followed sequentially and taken in consecutive semesters. Students must enroll in all required coursework outlined in each semester of the program, even if similar coursework was taken at another institution. Students begin the professional sequence in the fall.

It is expected that most major and liberal studies coursework will be completed by the start of the professional sequence. The structure of the sequence allows very little time to pursue remaining coursework in these areas. Many students elect to finish their remaining requirements during the summer, or after the sequence has been completed. In addition, ACTFL OPI certification of speaking ability in the language rated Intermediate High or above is required by the end of the first semester in the program. Students must also complete the Writing Proficiency Test (WPT) no later than their third semester in the program. A rating of Intermediate High or above must be earned before a student is allowed to participate in the final student teaching semester. See further information under Oral and Written Proficiency Exams.

Students admitted to two areas of language certification follow the same four-semester sequence as single certification students; consult with the World Language Education program coordinator to arrange sequence requirements.

The professional program is a full-time commitment and places heavy demands on students' time and energy. The professional sequence is particularly taxing for students completing certification in two subject areas. Students must make satisfactory progress in their program to continue. This professional judgment is made by the faculty program coordinator in consultation with cooperating teachers and supervisors.

### PROFESSIONAL SEQUENCE COURSES

Complete all of the courses listed below. *Required courses* must be taken during the semester listed. *Other courses* may be taken at any time, but a suggested course sequence is provided.

Code	Title	Credits
<b>Semester 1</b>		
<i>Required Courses</i>		
CURRIC 342	Teaching World Languages (K-8)	3
CURRIC 243	Practicum in World Languages (K-12) <sup>1</sup>	3
<i>Other Courses</i>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
ED PSYCH 301	How People Learn	3
<b>Semester 2</b>		
<i>Required Courses</i>		
CURRIC 442 or CURRIC 443	Student Teaching in World Languages (K-8) <sup>2</sup> Student Teaching in World Languages (6-12)	6
<i>Other Courses</i>		



ED PSYCH 331	Human Development From Childhood Through Adolescence	3
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**Semester 3***Required Courses*

CURRIC 343	Teaching World Languages (6-12)	3
CURRIC 443	Student Teaching in World Languages (6-12) <sup>3</sup>	6
or CURRIC 442	Student Teaching in World Languages (K-8)	

*Other Courses*

CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
ED POL 300	School and Society	3
or ED POL/ HISTORY 412	History of American Education	

**Semester 4***Required Courses*

CURRIC 443	Student Teaching in World Languages (6-12) <sup>4</sup>	9
CURRIC 564	Advanced Problems on the Teaching of World Languages	3

<sup>1</sup> The practicum will take place three days a week; placement will probably be at the elementary level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar. Placements are made within a 50-mile field experiences service area and may not necessarily be in the city of Madison.

<sup>2</sup> Placement will probably be at the elementary level, three days a week. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the UW–Madison calendar.

<sup>3</sup> Placement will probably be at the middle school level. Fieldwork this semester is a half-time commitment and encompasses an entire semester based on the school district calendar. (Fall semester extends from late August through mid-January; spring semester extends from mid-January through early mid-June.)

<sup>4</sup> Student teaching this semester is a full-time commitment and will be at the high school level. Fieldwork this semester encompasses an entire semester based on the school district calendar.

## ELECTIVE COURSEWORK

Complete additional coursework as needed to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level major coursework
- 2.75 cumulative grade point average in all professional education coursework

- Degree candidates must complete at least 120 total credits.
- No more than 40 credits from a single academic department may be applied toward the 120 minimum credits required for graduation.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum work are considered part of the 30 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1427)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. In Semester 1, prior to starting student teaching, students must have acquired Intermediate High proficiency in their target language on the ACTFL OPI scale as measured by two independent external evaluators.
2. In Year 1, student teachers must demonstrate the ability to teach in a K-8 context, as evaluated by their University supervisor and their mentor teacher through repeated direct observations.
3. During their content courses, students must meet (a) teacher education standards; and (b) ACTFL standards, as measured by (a) formative and summative evaluation of their assignments; (b) Teacher Education portfolio.
4. In Year 2, student teachers must demonstrate the ability to teach in a 6-12 school context, as evaluated by their University supervisor and their cooperating teacher through repeated direct observations.
5. To get certified by the Department of Public Instruction, at the end of Year 2, student teachers must have successfully completed an EdTPA Portfolio of their classroom experiences that demonstrates professionalism and meets the EdTPA standards, as evaluated by external evaluators.

## ADVISING AND CAREERS

### SPANISH EDUCATION ADVISING

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Spanish. Students may want to consult the undergraduate advisor (<http://spanport.wisc.edu/undergraduate/advising>) in the Spanish and Portuguese department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners

to support underrepresented students interested in majors in the School of Education.

OURL staff perform outreach, recruitment, and advising on behalf of the School. OURL staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURL works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURL staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCApt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Curriculum and Instruction (<http://ci.education.wisc.edu>) and Spanish and Portuguese (<http://spanport.wisc.edu/home>) departmental websites.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Disclosure Statement and Criminal Background Investigation Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal

background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3

POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

#### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

#### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter

part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### Student Teaching Application Procedures

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### Alternative Placement Options for Student Teaching

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching

experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### Special Placements

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### Withdrawing From/Failing Field Experience Assignments

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## Minority Group Relations and Conflict Resolution

### Minority Group Relations

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.

- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Conflict Resolution Requirement

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. “Phonics” means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood (lockwood@education.wisc.edu), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.
- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to

as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence* level. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.
- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after

graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## SPANISH, SED MINOR

### HOW TO GET IN

This minor is only available to students admitted to the World Language Education program, or to teachers already licensed to teach at an appropriate level and subject in Wisconsin. Undergraduate students interested in completing a certification minor in Spanish must also complete a major in another World Language certification subject area and be admitted to the World Language Education program. It is not possible to be certified only in a minor area. Consult with an Education Academic Services advisor to discuss the feasibility of combining this minor with the major subject area—not all combinations may be possible and will require approval of the WLE program coordinator. Interested students must apply and be admitted to both language subject areas. The oral proficiency exam, any written exams, and the immersion experience required for certification must be completed in both languages.

Licensed teachers interested in pursuing certification in this minor should consult with the World Language Education program director, Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

### REQUIREMENTS

Note: The oral proficiency exam, any written exams, and an immersion experience are required for certification in this language. Consult the

major requirements (p. 1422) in this subject for an explanation of these requirements and the World Language Education professional sequence.

## PREREQUISITE COURSEWORK

Complete the following or demonstrate proficiency at the equivalent levels.

Code	Title	Credits
SPANISH 101	First Semester Spanish	4
SPANISH 102	Second Semester Spanish	4
SPANISH 203	Third Semester Spanish	4
SPANISH 204	Fourth Semester Spanish	4

## MINOR REQUIREMENTS

Complete a minimum of 24 credits. The Spanish minor also requires a minimum cumulative grade point average of 2.75, based on all Spanish minor coursework taken on the UW–Madison campus.

Code	Title	Credits
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
One advanced (300 level or above) literature or culture course		
One advanced (300 level or above) language practice or linguistics course		
Elective credits in Spanish, 300 level or above, to total 24 credits.		

### ADVISING AND CAREERS

Consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, for general questions regarding certification to teach Spanish. Students may want to consult the undergraduate advisor (<http://spanport.wisc.edu/undergraduate/advising>) in the Spanish and Portuguese department regarding course sequencing and other aspects of this field of study.

The director of the World Language Education program is Professor François Tochon, [ftochon@education.wisc.edu](mailto:ftochon@education.wisc.edu), 544C Teacher Education Building.

## DANCE

Dance is an art form, an integral part of education, an element of interdisciplinary experimentation and a part of daily life. Dance courses focus on the study and/or practice of various dance techniques (e.g., ballet, contemporary), dance repertory theater, improvisation, composition, movement analysis, anatomy, theory, history, and more. Courses stress personal creativity, individual growth, and strong technical training. An undergraduate major in dance is an excellent means of gaining in-depth knowledge of the art form and its related fields. Dance elective courses are open to all university students.

Two undergraduate options are offered in dance. The Bachelor of Fine Arts (p. 1438) (BFA) undergraduate degree program in dance



is for students with a strong interest and aptitude in dance and/or professional dance theater. The Bachelor of Science–Dance (p. 1433) option was designed for students who wish to prepare for graduate work in theoretical areas of dance or who wish to combine their interest in dance with other fields of study. The BFA requires a minimum of 85 major credits, including public presentations of original work, while the B.S. degree requires a minimum of 57 major credits. These major requirements highlight the differences between the two options: B.S. students can pursue other interests with their remaining credits, while BFA students are able to spend more time in the studio.

Admission to the major in dance is by performance audition only. For more information on the audition schedule and process, contact the Dance department office, 139 Lathrop Hall, 1050 University Avenue, phone: 608-262-1691; [www.education.wisc.edu/dance](http://www.education.wisc.edu/dance) (<http://www.education.wisc.edu/dance>). Students enrolling in a dance major are expected to have had previous dance experience. Junior-level transfers should expect to spend three additional years in the program unless they have had previous experience.

The dance department also offers three certificate programs open to students across campus, the dance certificate program (p. 1444), a certificate in pilates (p. 1445), and one in introductory studies in dance/movement therapy (p. 1445).

## DEGREES/MAJORS/CERTIFICATES

- Dance, B.S. (p. 1433)
- Dance, BFA (p. 1438)
- Dance, Certificate (p. 1444)
- Introductory Studies in Dance/Movement Therapy, Certificate (p. 1445)
- Pilates, Certificate (p. 1445)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## DANCE, B.S.

The dance department offers a wide range of courses for majors and nonmajors to study the art and science of human movement. An undergraduate major in dance is an excellent means of gaining in-depth knowledge of the art form and its related fields. Dance degree graduates become well-prepared dance artists/educators who go on to pursue dance professionally, or have careers in related occupations such as administration, health care, or business. Recent graduates have taught in K–12 and higher education, started their own companies, have operated their own studios, and danced with major dance companies throughout the U.S., including Urban Bush Women, Pat Graney, and Nikolais/Louis.

A dance degree at UW–Madison offers opportunities to:

- Study with a world-class faculty with excellent teacher-student ratios
- Rehearse and perform in state-of-the-art facilities

- Experience an interdisciplinary, rigorous approach to dance studies. Courses draw on the biological, physical and social sciences as well as the humanities.
- Earn a scholarship. Departmental awards (<https://www.dance.wisc.edu/dance/admissions/scholarships-awards>) for summer or honors study are also available.
- Interact with nationally and internationally renowned guest artists and master class instructors, such as the Bill T. Jones/Arnie Zane Dance Company, Pilobolus, Meredith Monk, Elizabeth Streb, David Parsons, and Tim Miller.
- Perform frequently
- Pursue a double-major in a second area of interest

The department offers two undergraduate degrees in dance. The Bachelor of Fine Arts (BFA) undergraduate degree program in dance is for students with a strong interest and aptitude in dance and/or professional dance theater. The Bachelor of Science–Dance degree was designed for students who wish to prepare for graduate work in theoretical areas of dance or who wish to combine their interest in dance with other fields of study.

The BFA requires a minimum of 85 major credits, including public presentations of original work, while the B.S. degree requires a minimum of 57 major credits. The differences in the major requirements highlight the differences between the two options: B.S. students can pursue other interests with their remaining credits, while BFA students are able to spend more time in the studio. An audition to be a dance major is required and offered twice yearly, in November and February. Consult the department's website (<https://www.dance.wisc.edu>) for audition information,

The dance department also offers three certificates of study: a general dance (p. 1444) certificate, a certificate in introductory studies in dance/movement therapy (p. 1445), and a Pilates (p. 1445) certificate.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

All students wishing to major in dance must complete a performance audition to be admitted to the program. Consult the dance department website (<http://www.dance.wisc.edu/dance/admissions/how-to-apply>) for more detailed information about the audition process.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

On-campus students wishing to be admitted to one of the dance program options must audition and also have earned a minimum 2.5 grade point average. On-campus students should obtain and submit a signed Professional Program Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) to Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. The application must be signed by the appropriate dance department advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School

of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information.

Prospective transfer students should meet as early as possible with a dance department advisor and with an advisor at Education Academic Services. Coursework taken at another institution may need to be evaluated by a faculty or staff member in dance. Transfer students must audition to be admitted to one of the dance program options. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an School of Education advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## ADMISSION AND APPLICATION CRITERIA FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next.

Eligibility for consideration:

- The dance department currently admits students to its programs only through a performance audition.
- Cumulative grade point average of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- Students who have transferred to and are currently enrolled in UW–Madison coursework must have a cumulative grade point average of at least a 2.5 on the UW–Madison campus, as modified by the Last 60 Credits Rule.
- Filing of all required paperwork, including the dance program application and any required transcripts.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative

GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

The B.S. degree in dance has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Discipline-related coursework* provides an interdisciplinary foundation contributing to the performance and understanding of this art form.
- *Major* requirements offer an in-depth study of dance.

- *Elective* credits allow students to pursue areas of interest and complete the minimum number of credits required for the degree.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## DISCIPLINE-RELATED REQUIREMENTS

Code	Title	Credits
DANCE 200	Writing the Moving Body	3
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
DANCE 560	Current Topics in Dance: Workshop (Anatomy for Dancers)	1-3

<sup>1</sup> Effective fall 2017, Anatomy/Kines 329 will be replaced by Kines 338.

## MAJOR REQUIREMENTS

Complete a minimum of 57 credits. At least 15 upper-level major Dance credits (numbered 300 and above) must be taken in residence on the UW-Madison campus.

New first-year Dance-B.S. and BFA students should expect to register for three 100-level foundational major courses: DANCE 111 Contemporary Dance Technique and Theory I, 3–5 credits, DANCE 125 Ballet Technique I, and DANCE 162 First Year Workshop. These courses are taken by all dance majors in their first year, regardless of previous dance training and experience. The classes prepare students for advanced study in dance and movement technique. Dance majors are assured enrollment in these courses. DANCE 165 World Dance Cultures: Traditional to Contemporary is also strongly recommended for the first semester; this course will meet the Global Perspectives requirement in liberal studies.

## DANCE TECHNIQUE AND THEORY

### Contemporary Dance Technique and Theory

Select a minimum of 14 credits from the following; 6 credits must be numbered 211 or higher.

Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	1-3
DANCE 112	Contemporary Dance Technique and Theory II	1-3
DANCE 211	Contemporary Dance Technique and Theory III	1-3
DANCE 212	Contemporary Dance Technique and Theory IV	1-3
DANCE 311	Contemporary Dance Technique and Theory V	1-3
DANCE 312	Contemporary Dance Technique and Theory VI	1-3
DANCE 411	Contemporary Dance Technique and Theory VII	1-3
DANCE 412	Contemporary Dance Technique and Theory VIII	1-3

### Ballet Technique

Select a minimum of 8 credits from the following; 4 credits must be numbered 225 or higher.

Code	Title	Credits
DANCE 125	Ballet Technique I	1-2
DANCE 126	Ballet Technique I-B	1-2
DANCE 225	Ballet Technique II	1-2

DANCE 226	Ballet Technique II-B	1-2
DANCE 325	Ballet Technique III	1-2
DANCE 326	Ballet Technique III-B	1-2
DANCE 425	Ballet Technique IV	1-2

### Additional Techniques

Select a minimum of 2 credits. Students may also select from Additional Techniques workshops listed under Dance 1 or Dance 560. Jazz and Ballroom courses do not count toward this requirement.

Code	Title	Credits
DANCE 1	Workshop in Dance Activity (Hip Hop)	1-2
DANCE 1	Workshop in Dance Activity (Tai Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

### ADDITIONAL REQUIRED COURSES

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
DANCE 140	Dance Production	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 162	First Year Workshop	1
DANCE 240	Dance Production Laboratory	1
DANCE 241	Music Fundamentals for Dancers	3
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Dance Art from the Renaissance to the 1950's	3
DANCE 345	Video Design for the Performing and Visual Arts	3
or DANCE/ ART 341	Sound Design for the Performing and Visual Arts	
DANCE 355	Dance Composition II	2
DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	3
DANCE 462	Senior Seminar	3
DANCE 463	Senior Project	1-2
Select one of the following:		1-3
DANCE 451	Dance Repertory Theater	
DANCE 452	Dance Repertory Theater	

## ELECTIVE COURSEWORK

Complete additional coursework, if necessary, to reach the minimum of 124 credits. DANCE 165 World Dance Cultures: Traditional to Contemporary is recommended and will meet the Global Perspectives requirement in liberal studies.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements below are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.50 cumulative grade point average in all upper-level major coursework. Dance courses numbered 300 and above are considered to be upper-level courses.
- Major Residency. Students must complete a minimum of 15 upper-level major credits on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 124 credits are required for graduation.

### DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### **OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)**

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### **SCHOOL OF EDUCATION CAREER CENTER**

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials

## **ADVISING AND CAREERS**

### **DANCE DEPARTMENT ADVISING**

Each freshmen cohort is assigned a faculty advisor who works with the group until graduation. In their first year, all dance majors receive targeted advising from Karen McShane-Hellenbrand (<http://dance.wisc.edu/dance/people/instructional-staff/karen-mcshane-hellenbrand>). Faculty advisors assist students in choosing classes, evaluating their degree path, and assessing their artistic and academic progress. Students undergo a yearly review with a faculty panel to assess the student's progress in their degree program. Faculty advisors in the department include: Kate Corby (<http://dance.wisc.edu/dance/people/faculty/kate-corby>), Andrea Harris (<http://dance.wisc.edu/dance/people/faculty/andrea-harris>), Li Chiao-Ping (<http://dance.wisc.edu/dance/people/faculty/li-chiao-ping>), Marlene Skog (<http://dance.wisc.edu/dance/academics/bs-program>), Chris Walker (<https://www.dance.wisc.edu/dance/people/faculty/chris-walker>) and Jin-Wen Yu (<http://dance.wisc.edu/dance/people/faculty/jin-wen-yu>).

Advising in dance is handled through the dance department, 608-262-1691, 125 Lathrop Hall, 1050 University Avenue. Students also meet with Education Academic Services staff regarding other course requirements and concerns, see below.

### **GENERAL SCHOOL OF EDUCATION ADVISING**

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### **UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)**

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school

- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## DANCE, BFA

The dance department offers a wide range of courses for majors and nonmajors to study the art and science of human movement. An undergraduate major in dance is an excellent means of gaining in-depth knowledge of the art form and its related fields. Dance degree graduates become well-prepared dance artists/educators who go on to pursue dance professionally, or have careers in related occupations such as administration, health care, or business. Recent graduates have taught in K–12 and higher education, started their own companies, have operated their own studios, and danced with major dance companies throughout the U.S., including Urban Bush Women, Pat Graney, and Nikolais/Louis.

A dance degree at UW–Madison offers opportunities to:

- Study with a world-class faculty with excellent teacher-student ratios
- Rehearse and perform in state-of-the-art facilities
- Experience an interdisciplinary, rigorous approach to dance studies. Courses draw on the biological, physical and social sciences as well as the humanities.
- Earn a scholarship. Departmental awards (<https://www.dance.wisc.edu/dance/admissions/scholarships-awards>) for summer or honors study are also available.
- Interact with nationally and internationally renowned guest artists and master class instructors, such as the Bill T. Jones/Arnie Zane Dance Company, Pilobolus, Meredith Monk, Elizabeth Streb, David Parsons, and Tim Miller
- Perform frequently
- Pursue a double major in a second area of interest

The department offers two undergraduate degrees in dance. The Bachelor of Fine Arts (BFA) undergraduate degree program in dance is for students with a strong interest and aptitude in dance and/or professional dance theater. The Bachelor of Science–Dance degree was designed for students who wish to prepare for graduate work in theoretical areas of dance or who wish to combine their interest in dance with other fields of study.

The BFA requires a minimum of 85 major credits, including public presentations of original work, while the B.S. degree requires a minimum of 57 major credits. The differences in the major requirements highlight the differences between the two options: B.S. students can pursue other interests with their remaining credits, while BFA students are able to spend more time in the studio. An audition to be a dance major is required and offered twice yearly, in November and February. Consult the department's website (<https://www.dance.wisc.edu>) for audition information,

The dance department also offers three certificates of study: a general dance (p. 1444) certificate, a certificate in introductory studies in dance/movement therapy (p. 1445), and a Pilates (p. 1445) certificate.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

All students wishing to major in dance must complete a performance audition to be admitted to the program. Consult the Dance

department website (<http://www.dance.wisc.edu/dance/admissions/how-to-apply>) for more detailed information about the audition process.

## ENTERING THE SCHOOL OF EDUCATION

### NEW AND CURRENT UW–MADISON STUDENTS

On-campus students wishing to be admitted to one of the dance program options must audition and also have earned a minimum 2.5 grade point average. On-campus students should obtain and submit a signed Professional Program Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>), to Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. The application must be signed by the appropriate dance department advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information.

Prospective transfer students should meet as early as possible with a dance department advisor and with an advisor at Education Academic Services. Coursework taken at another institution may need to be evaluated by a faculty or staff member in dance. Transfer students must audition to be admitted to one of the dance program options. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

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Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an School of Education advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## ADMISSION AND APPLICATION

### CRITERIA FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Eligibility for consideration:

- The dance department currently admits students to its programs only through a performance audition.
- Cumulative grade point average of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- On-campus transfer students must have a cumulative grade point average of at least a 2.5 on the UW–Madison campus, as modified by the Last 60 Credits Rule.
- Filing of all required paperwork, including the dance program application and any required transcripts.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

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**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

## PROGRAM STRUCTURE

The BFA degree in dance has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Discipline-related coursework* provides an interdisciplinary foundation contributing to the performance and understanding of this art form.
- *Major* requirements offer an in-depth study of dance.
- *Elective* credits allow students to pursue areas of interest and complete the minimum number of credits required for the degree.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## DISCIPLINE-RELATED REQUIREMENTS

Code	Title	Credits
DANCE 200	Writing the Moving Body	3
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
DANCE 560	Current Topics in Dance: Workshop (Anatomy for Dancers)	1-3

<sup>1</sup> Effective fall 2017, Anatomy/Kines 329 will be replaced by Kines 338.

## MAJOR REQUIREMENTS

Complete a minimum of 85 credits. At least 15 upper-level major Dance credits (numbered 300 and above) must be taken in residence on the UW–Madison campus.

New first-year Dance–B.S. and BFA students should expect to register for three 100-level foundational major courses: DANCE 111 Contemporary Dance Technique and Theory I, 5 credits, DANCE 125 Ballet Technique I, and DANCE 162 First Year Workshop for a total of 11 credits. These courses are taken by all dance majors in their first year, regardless of previous dance training and experience. The classes prepare students for advanced study in dance and movement technique. Dance majors are assured enrollment in these courses. DANCE 165 World Dance Cultures: Traditional to Contemporary is also strongly recommended for the first semester; this course will meet the Global Perspectives requirement in liberal studies.

### DANCE TECHNIQUE AND THEORY

#### Contemporary Dance Technique and Theory

Select a minimum of 18 credits from the following; at least 9 credits must be from DANCE 311, DANCE 312, DANCE 411 or DANCE 412.

Note: 100- and 200-level technique classes must be taken for 3 credits; 300 and 400 level may be taken for 2 credits.



Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	
DANCE 112	Contemporary Dance Technique and Theory II	
DANCE 211	Contemporary Dance Technique and Theory III	
DANCE 212	Contemporary Dance Technique and Theory IV	
DANCE 311	Contemporary Dance Technique and Theory V	
DANCE 312	Contemporary Dance Technique and Theory VI	
DANCE 411	Contemporary Dance Technique and Theory VII	
DANCE 412	Contemporary Dance Technique and Theory VIII	

### Ballet Technique

Select a minimum of 14 credits from the following; 10 must be numbered 225 or higher:

Code	Title	Credits
DANCE 125	Ballet Technique I	
DANCE 126	Ballet Technique I-B	
DANCE 225	Ballet Technique II	
DANCE 226	Ballet Technique II-B	
DANCE 325	Ballet Technique III	
DANCE 326	Ballet Technique III-B	
DANCE 425	Ballet Technique IV	

### Additional Techniques

Select a minimum of 6 credits of the following. Students may also select from Additional Techniques workshops listed under DANCE 1 or DANCE 560. Jazz and Ballroom courses do not count toward this requirement.

Code	Title	Credits
DANCE 1	Workshop in Dance Activity (Hip Hop)	1-2
DANCE 1	Workshop in Dance Activity (Tai Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2
DANCE 360 or DANCE 560	Current Topics in Dance Current Topics in Dance: Workshop	1-3

## BODY STUDIES

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
Select 4 credits of the following:		4
DANCE 1	Workshop in Dance Activity (Yoga)	
DANCE 132	Workshop in Body Studies and Practices	
DANCE 135	Pilates Mat I	
DANCE 235	Pilates Mat II	
DANCE 136	Pilates Equipment Lab I	
DANCE 236	Pilates Equipment II	
DANCE 336	Pilates Equipment Lab III	
DANCE 213	New Movement Techniques	

## CRITICAL AND CREATIVE INVESTIGATIONS

Code	Title	Credits
MUSIC 111	Elements of Music	3
or MUSIC 151	Basic Concepts of Music Theory	
DANCE 140	Dance Production	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 162	First Year Workshop	1
DANCE 241	Music Fundamentals for Dancers	3
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Dance Art from the Renaissance to the 1950's	3
DANCE 345	Video Design for the Performing and Visual Arts	3
or DANCE/ ART 341	Sound Design for the Performing and Visual Arts	
DANCE 355	Dance Composition II	2
DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	3

## DANCE PEDAGOGY

Code	Title	Credits
Select one of the following:		3
DANCE 371	Creative Dance for Children	
DANCE 372	Teaching of Dance to Adults	
DANCE 374	Teaching Dance	

## DANCE REPERTORY THEATER

Code	Title	Credits
DANCE 455	Dance Composition III	2
DANCE 462	Senior Seminar	3
DANCE 463	Senior Project	1-2
Select a minimum of 6 credits of the following:		6
DANCE 451	Dance Repertory Theater	
DANCE 452	Dance Repertory Theater	

## PUBLIC PRESENTATIONS

BFA students must create one solo and one group piece (trio or larger) after the completion of DANCE 255. These works must be submitted for faculty approval and publicly presented in concert. Senior projects must be presented in an approved public forum.

## ELECTIVE CREDITS

Complete additional coursework, if necessary, to reach the minimum of 125 credits. DANCE 165 World Dance Cultures: Traditional to Contemporary is recommended and will meet the Global Perspectives requirement in liberal studies.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average in all major coursework
- 2.50 cumulative grade point average in all upper-level major coursework. Dance courses numbered 300 and above are considered to be upper-level courses.
- Major Residency. Students must complete a minimum of 15 upper-level major credits on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 125 credits are required for graduation.

### DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## ADVISING AND CAREERS

### DANCE DEPARTMENT ADVISING

Each freshmen cohort is assigned a faculty advisor who works with the group until graduation. In their first year, all dance majors receive targeted advising from Karen McShane-Hellenbrand (<http://dance.wisc.edu/dance/people/instructional-staff/karen-mcshane-hellenbrand>). Faculty advisors assist students in choosing classes, evaluating their degree path, and assessing their artistic and academic progress. Students undergo a yearly review with a faculty panel to assess the student's progress in their degree program. Faculty advisors in the department include: Kate Corby (<http://dance.wisc.edu/dance/people/faculty/kate-corby>), Andrea Harris (<http://dance.wisc.edu/dance/people/faculty/andrea-harris>), Li Chiao-Ping (<http://dance.wisc.edu/dance/people/faculty/li-chiao-ping>), Marlene Skog (<http://dance.wisc.edu/dance/academics/bs-program>), Chris Walker (<https://www.dance.wisc.edu/dance/people/faculty/chris-walker>) and Jin-Wen Yu (<http://dance.wisc.edu/dance/people/faculty/jin-wen-yu>).

Advising in dance is handled through the dance department, 608-262-1691, 125 Lathrop Hall, 1050 University Avenue. Students also meet with Education Academic Services staff regarding other course requirements and concerns, see below.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

## UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651

[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## DANCE, CERTIFICATE

A dance certificate (19 credits) provides a general, core curriculum in dance that is available for students in other majors and fields. The courses intend to give the certificate student a solid foundation in contemporary dance practice and theory.

## HOW TO GET IN

Undergraduate students in good academic standing, with a cumulative GPA of 2.50 or higher, may declare this certificate. University Special students who have previously completed any bachelor's degree are also eligible and encouraged to pursue this program of study.

Students must meet with the dance certificate advisor, Joseph Koykkar (<http://dance.wisc.edu/dance/people/faculty/joseph-koykkar>), to discuss their intention to pursue the certificate. Interested students should contact Professor Koykkar for an advising appointment. Students will enroll in two semesters of dance technique and apply for admission to the dance certificate program at the end of the second semester. Complete a dance certificate application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) to declare the certificate.

## REQUIREMENTS

### COURSE REQUIREMENTS

The dance certificate requires the following course distribution for a minimum of 19 credits.

#### CONTEMPORARY DANCE TECHNIQUE AND THEORY

Select 6 credits from the following:

Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	1-3
DANCE 112	Contemporary Dance Technique and Theory II	1-3
DANCE 211	Contemporary Dance Technique and Theory III	1-3
DANCE 212	Contemporary Dance Technique and Theory IV	1-3
DANCE 311	Contemporary Dance Technique and Theory V	1-3
DANCE 312	Contemporary Dance Technique and Theory VI	1-3
DANCE 411	Contemporary Dance Technique and Theory VII	1-3

DANCE 412	Contemporary Dance Technique and Theory VIII	1-3
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### BALLET TECHNIQUE

Select 2 credits from the following:

Code	Title	Credits
DANCE 125	Ballet Technique I	1-2
DANCE 126	Ballet Technique I-B	1-2
DANCE 225	Ballet Technique II	1-2
DANCE 226	Ballet Technique II-B	1-2
DANCE 325	Ballet Technique III	1-2
DANCE 326	Ballet Technique III-B	1-2
DANCE 425	Ballet Technique IV	1-2

### ADDITIONAL TECHNIQUES

Select 2 credits from the following. Students may also select from Additional Techniques workshops listed under DANCE 1 or DANCE 560.

Code	Title	Credits
DANCE 1	Workshop in Dance Activity (Hip-Hop)	1-2
DANCE 1	Workshop in Dance Activity (Tai-Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

### ADDITIONAL REQUIRED COURSES

Code	Title	Credits
DANCE 131 or DANCE 157	Somatic Theory and Practices Introduction to Movement Analysis	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Dance Art from the Renaissance to the 1950's	3

## VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements

have been completed and (2) posts this information on the student's transcript.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## INTRODUCTORY STUDIES IN DANCE/ MOVEMENT THERAPY, CERTIFICATE

Dance/movement therapy is a creative form of psychotherapy that uses movement, as well as words, to help people—those who are generally healthy as well as those dealing with emotional, mental, or physical problems—to regain a sense of wholeness by experiencing the fundamental unity of body, mind, and spirit. The dance therapy certificate introduces students to the fascinating nonverbal aspects of human communication and its applications to a wide range of other fields such as social work, teaching, occupational therapy, physical therapy, and communication disorders.

Students will also be introduced to the use of movement in the topical fields of violence prevention, behavior management and social skills development from a movement or body/mind perspective. Students leave prepared to either go to graduate school in the field of dance/movement therapy or to use embodied practices in related fields. In addition, students develop a repertoire of strategies to help cope with the stress and anxiety inherent in college life.

## HOW TO GET IN

### DECLARATION PROCESS

Prospective certificate students should enroll in the first- or second-semester dance/movement therapy course:

- DANCE 231 Introduction to Dance/Movement Therapy *or*
- DANCE 232 Introduction to Dynamics of Dance Therapy.

Interested students should meet with the dance/movement therapy certificate advisor, Rena Kornblum (<http://dance.wisc.edu/dance/people/instructional-staff/rena-kornblum>), to discuss their intentions to pursue the certificate. Complete a Dance/Movement Therapy certificate application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) to declare the certificate.

## REQUIREMENTS

### CERTIFICATE COURSE REQUIREMENTS

The DMT certificate requires a minimum of 19 credits.

### SUPPORTIVE DISCIPLINARY COURSEWORK

Choose a course (three credit minimum) from the following departments: Counseling Psychology ([http://guide.wisc.edu/courses/coun\\_psy](http://guide.wisc.edu/courses/coun_psy)), Educational Psychology ([http://guide.wisc.edu/courses/ed\\_psy](http://guide.wisc.edu/courses/ed_psy)), Psychology (<http://guide.wisc.edu/courses/psych>), Rehabilitation

Psychology and Special Education ([http://guide.wisc.edu/courses/rp\\_se](http://guide.wisc.edu/courses/rp_se)).

## DANCE DEPARTMENT COURSEWORK

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 231	Introduction to Dance/Movement Therapy	2
DANCE 232	Introduction to Dynamics of Dance Therapy	2
DANCE 331	Dynamics of Dance Therapy	3
DANCE 431	Dance Therapy Practicum	3

## VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements have been completed and (2) posts this information on the student's transcript.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## PILATES, CERTIFICATE

The Pilates certificate includes coursework in Pilates mat and equipment exercises, teaching methods, and functional anatomy. The certificate prepares students to teach Pilates in a studio setting, and also creates a practical foundation for those who wish to pursue graduate work in movement-based fields.

Students commonly pair the certificate with dance, nutrition, and/or kinesiology majors, although it is open to all interested students. The curriculum spans 2.5 years, including two summer courses. Upon completion, students are encouraged to sit for the Pilates Method Alliance certification exam to earn their credentials as nationally certified Pilates teachers.

## HOW TO GET IN

### DECLARATION PROCESS

Students should meet with the Pilates certificate advisor, Collette Stewart (<http://dance.wisc.edu/dance/people/instructional-staff/collette-stewart>), to discuss their intention to pursue the certificate. Appointments may be arranged via email. Students must complete a Pilates certificate application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) to declare the certificate.

## REQUIREMENTS

### CERTIFICATE COURSE REQUIREMENTS

The Pilates certificate requires a total of 20 credits. Collette Stewart is the advisor for the Pilates certificate, [stewart1@wisc.edu](mailto:stewart1@wisc.edu); interested students should contact her for an advising appointment.

Code	Title	Credits
DANCE 135	Pilates Mat I	1
DANCE 136	Pilates Equipment Lab I	1
DANCE 235	Pilates Mat II	1
DANCE 236	Pilates Equipment II	1
DANCE 237	Pilates Studio I	3
DANCE 330	Functional Anatomy for Movement Practices	1
DANCE 336	Pilates Equipment Lab III	2
DANCE 337	Pilates Studio II	3
DANCE 375	Pilates Teaching Methods	1
DANCE 376	Pilates Teaching I	3
DANCE 476	Pilates Teaching II	3

### VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements have been completed and (2) posts this information on the student's transcript.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://www.dance.wisc.edu>)

## EDUCATION - SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, BSE (p. 1446)

### INDIVIDUAL MAJOR, BSE

The individual major provides undergraduates with an opportunity to develop a unique course of study; one that is interdepartmental and not reflected in existing degree programs. Completion of the individual major does not lead to a professional license or certification, although graduates may be interested in pursuing alternative educational careers or graduate work. Graduates earn a B.S.—Education degree.

## HOW TO GET IN

### ADMISSION ELIGIBILITY REQUIREMENTS

To be eligible, applicants must:

- earn a 2.75 cumulative GPA on the UW–Madison campus.<sup>1</sup>
- complete a minimum of 54 credits
- receive approval of major program proposal submitted by the applicant.

<sup>1</sup> For alternative calculation of cumulative GPA, see Last 60 Credits Rule.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to the program. GPAs will be calculated using

- all transferable college-level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## APPLICATION PROCEDURES

Once a committee of three persons has been chosen in accord with the guidelines and required courses have been selected, students should proceed as follows:

- Submit an Individual Major in Education proposal form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>).
- Submit the program plan and narrative with the transfer application for associate dean's approval. The three-member committee must sign the proposal in the spaces indicated. Failure to submit a program narrative will void the transfer. Obtain the program plan form from Education Academic Services.

Once an application form has been submitted, changes must be approved by both the chair of the committee and the associate dean. Changes must be recorded on the program plan. If more than two program changes are made, a new application form must be filed by the student.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

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

Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The bachelor of science (B.S.) degree program with an individual major has three components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major* requirements permit in-depth study of a unique area within the School of Education. Students create their own, interdepartmental major following the guidelines established by the school. When completed, the title of the individual major is listed on the student's transcript.
- *Elective* credits make it possible to pursue additional areas of interest and are necessary to reach the minimum of 120 credits required for the degree.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## REQUIREMENTS OF THE INDIVIDUAL MAJOR

### DEVELOPMENT OF THE MAJOR

Students must have an area of interest that they wish to develop into a 36–42 credit formalized program of study, or major. Advisors in Education Academic Services, Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, can discuss students' interests and help frame the written narrative required of the major. Applicants must develop a narrative describing the proposed course of study and its related career goals. Information should be included which will enable a faculty committee to identify the relationship among the proposed program of study, a general interest in education, and career goals. A program title cannot duplicate the existing title of any program at UW–Madison.

### SELECTION OF MAJOR COURSEWORK

Select courses that support the program narrative, in consultation with the major advisor; see below. **All courses in the major must be from School of Education course offerings.** All credits in the major must be completed after admission into the program (IME classification).

Additional requirements regarding the major are:

- To ensure depth and breadth of study, no more than two-thirds of the total credits in a major can be taken from any one department (i.e., if a major is 36 credits, no more than 24 credits can be in one department).

- A sequential development of courses must be planned in consultation with the major advisor and committee, and must be approved by the committee. The course sequence must include beginning through advanced levels of work as prescribed by the credit distribution.
- At least 20 of the IME credits must be at the intermediate or advanced levels (generally numbered 300 or above, but this varies in some departments).
- Courses in the School of Education completed prior to admission to the IME classification may not be used toward satisfaction of the 36–42 credits in the major without the faculty committee and associate dean's approval. The credits may count toward the 120 credits required for graduation.
- Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- An individual major which essentially parallels an existing departmental major will not be accepted.
- Directed study credits (e.g. 399, 699) are acceptable, but each course must be accompanied by a statement that includes a description of the focus of study, the requirements for successful completion of the credits, and a discussion of the applicability of content to the proposed individual major. Usually no more than 3 credits of Independent Study will be allowed. Approval of the associate dean is required in order to exceed three credits.
- Students must complete prerequisites for all courses and, in some departments, may be required to complete foundational courses.
- 2.75 cumulative grade point average across all major coursework
- 2.75 cumulative grade point average across all upper-level (numbered 300 and above) major coursework
- Degree candidates must complete at least 120 total credits.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus.

## SELECTING THE ADVISORY COMMITTEE AND MAJOR ADVISOR

The applicant must create a three-member committee to oversee his or her work. Only assistant, associate, and full professors may serve on the committee; individuals holding such titles as Lecturer or Instructor cannot serve in this capacity. One of the committee members will be selected by the student to be the major advisor. The major advisor must be from a department within the School of Education and from the department in which the majority of courses for the individual major will be taken, i.e., the core area of study. The second faculty member must be from the same department as the major advisor/committee chair. The third faculty member must be from another department in the School of Education in which courses will be taken for the individual major. The associate dean serves as ex officio to the three-member committee and gives final approval to all programs and any exceptions.

## ELECTIVE CREDITS

Elective credits make it possible to pursue additional areas of interest. Many students, for example, use their elective credits to complete an additional major from the College of Letters & Science. Some use this second major to complement their individual major, while others select second majors that are completely unrelated to their first. Elective credits are necessary to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework. Graduation GPA requirements may be modified by the Last 60 Credits Rule (p. 1227).

- 2.75 cumulative grade point average.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.



## ADVISING AND CAREERS

### ADVISING FOR THE INDIVIDUAL MAJOR

Students interested in the individual major should first consult with an advisor in Education Academic Services; call 608-262-1651 to schedule an appointment. Eventually, a committee to oversee the major will be formed and also provide advising in the major.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

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Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

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OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's

applications. The *Prepare and Connect* section provides offers additional details.

- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## EDUCATIONAL POLICY STUDIES

The Department of Educational Policy Studies offers many courses for undergraduate students. Multidisciplinary courses in the history, sociology, and philosophy of education, comparative and international education, urban education, and educational anthropology are available to all students. Courses in policy analysis emphasize the social context and implications of policy decisions. The department has strong ties with institutions and scholars in other countries.

A new undergraduate degree program in education studies (p. 1450) was recently approved by the University of Wisconsin System Board of Regents. The bachelor of science in education studies is designed to meet the needs of a growing number of undergraduate students who are interested in becoming involved in the realm of education, but not as teachers in the classroom. Major course work offers the multidisciplinary training needed to answer questions regarding domestic and global education policy and practice.

The popular educational policy studies certificate (p. 1454) is also available to all undergraduate students. The completion of the EPS certificate formalizes a student's interest in the multiple dimensions of this discipline.

## DEGREES/MAJORS/CERTIFICATES

- Education Studies, B.S. (p. 1450)
- Educational Policy Studies, Certificate (p. 1454)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu>)

## EDUCATION STUDIES, B.S.

The education studies degree program addresses urgent questions related to domestic and global education policy and practice. Majors will become well-informed leaders who can engage critically, thoughtfully, and ethically in the educational policy debates in Wisconsin, the nation, and the world.

Undergraduates interested in issues of inequality and social justice will study these dimensions of educational reform. Courses explore the interconnections between education and other major social institutions, including the justice system, the healthcare system, family advocacy systems, economic development, and foreign affairs. Students study debates concerning education-related social disparities and the pursuit of equal educational opportunities for all.

The education studies major prepares students for work in educational and governmental agencies, non-governmental organizations (both domestic and international), think tanks, policy institutes, community organizations, and other out-of-school educational spaces. Graduates might serve as policy directors or in other positions of institutional leadership and will be well prepared to work in education-related businesses or to pursue advanced studies in educational policy at the graduate level.

Students will first be admitted to this new program for the fall semester of 2017. Graduates will receive a bachelor of science degree in education studies from the School of Education. This program does not lead to teacher certification.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

New freshmen and off-campus transfers are admitted directly to the Bachelor of Science–Education Studies degree program. Current UW–Madison students must meet with an advisor in Education Academic Services prior to applying for admission to the B.S.–Education Studies degree program. The program currently admits on-campus students to begin in the fall, spring, and summer.

### ENTERING THE SCHOOL OF EDUCATION NEW AND CURRENT UW–MADISON STUDENTS

Incoming freshmen and transfer students enter directly into the Bachelor of Science–Education Studies degree program upon admission to UW–Madison. All other on-campus students should complete and submit an application following a meeting with an advisor in Education Academic Services at any time during the academic year.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the University to enroll in a School

of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## REQUIREMENTS

### PROGRAM STRUCTURE

The education studies program has three primary components:

- *Liberal studies and general education* courses that expose students to a broad range of academic disciplines.
- *Major* coursework in education studies, including core courses, depth, and breadth requirements. Students choose either a U.S. or Global concentration.
- *Elective* credits to pursue individual areas of interest. Education studies majors are encouraged to consider completing complementary coursework in the College of Letters & Science, possibly including an additional major. The structure of the education studies degree program makes it possible to complete an additional major and still graduate in four years.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

While new freshmen and off-campus transfers are admitted directly to the Bachelor of Science–Education Studies degree program, all other current UW–Madison students seeking to enter the B.S.–Education Studies degree program must apply for admission to the program. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult with an advisor in Education Academic Services prior to submitting an application. Students interested in applying to the program should call 608-262-1651 to schedule an appointment.

### CRITERIA FOR ADMISSION

Eligibility for admission consideration to Bachelor of Science–Education Studies degree:

- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Filing of all required paperwork and other application materials, including program application and transcripts.

#### Last 60 Credits Rule

Two grade point averages may be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted"

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## MAJOR REQUIREMENTS

The education studies major requires 30 credits, to include core courses (9 credits), depth requirements (12 credits) and breadth requirements (9 credits). Students will select either a U.S. concentration or Global Concentration to fulfill the depth requirement of the major.

### CORE COURSES, 9 CREDITS

Complete the following:

Code	Title	Credits
ED POL 300	School and Society	3
ED POL 340	Comparative Education	3
ED POL/ HISTORY 412	History of American Education	3

### DEPTH REQUIREMENTS, 12 CREDITS

Complete a minimum of four courses (12 credits) in either the United States or Global concentration to facilitate in-depth study of education policy and practice.

#### U.S. Concentration

Code	Title	Credits
ED POL 140	Introduction to Education	3
ED POL 150	Education and Public Policy	3
ED POL 200	Race, Ethnicity, and Inequality in American Education	3
ED POL 210	Youth, Education, and Society	3
ED POL 450	Rethinking "After-School" Education	3
ED POL 460	Immigration, Education, and Equity	3
ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	3
ED POL 500	Topics on Social Issues and Education	3
ED POL 505	Issues in Urban Education	3
ED POL 510	Urban School Policy	3
ED POL 518	Introduction to Debates in Higher Education Policy	3
ED POL/PHILOS 545	Philosophical Conceptions of Teaching and Learning	3
ED POL/PHILOS 550	Philosophy of Moral Education	3

ED POL/ GEN&WS 560	Gender and Education	3
ED POL/ AFROAMER 567	History of African American Education	3
ED POL/ ANTHRO 570	Anthropology and Education	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
ED POL/ HISTORY 665	History of the Federal Role in American Education	3
ED POL/SOC 648	Sociology of Education	3

### Global Concentration

Code	Title	Credits
ED POL 140	Introduction to Education	3
ED POL/INTL ST 335	Globalization and Education	3
ED POL 460	Immigration, Education, and Equity	3
ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	3
ED POL/ GEN&WS 560	Gender and Education	3
ED POL 595	Language Politics, Ethnicity, and Education	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
ED POL 675	Introduction to Comparative and International Education	3
ED POL/CURRIC 677	Education, Health and Sexuality: Global Perspective and Policies	3

### BREADTH REQUIREMENTS, 9 CREDITS

Code	Title	Credits
<b>Human Development</b>		
Complete one of the following:		3
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
<b>Additional Breadth Course Options</b>		
ED PSYCH 320, 321 and 331 may also count here, but not toward both requirements.		
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	3
ED PSYCH 326	Mind, Brain and Education	3
ED PSYCH 506	Contemporary Issues in Educational Psychology	3
ED PSYCH 521	Adolescent Development in Educational Contexts	3
ED PSYCH 541	Applied Behavior Analysis in Classrooms	3
ELPA 640	Legal Rights and Responsibilities for Teachers	1-3

## ELECTIVE CREDITS

Complete additional credits to complete the minimum of 120 required for the degree. Education studies majors are encouraged to consider completing complementary coursework in the College of Letters & Science, possibly including an additional major. The structure of the education studies degree program makes it possible to complete an additional major and still graduate in four years.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.5 cumulative major grade point average.
- 2.5 cumulative grade point average in all upper-level major coursework (“upper-level” defined as numbered 300 and above).
- Major Residency: Students must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total credits: A minimum of 120 credits are required for graduation.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student’s progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

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## ADVISING AND CAREERS

### EDUCATION STUDIES ADVISING

Students are advised by staff from Education Academic Services (Room 139 Education Building) at SOAR and during the regular academic year. Staff from the Office of Undergraduate Recruitment and Retention (Room 105 Education Building) provide additional support and assistance to under-represented students in the School of Education. See below. Admitted students are also assigned a departmental advisor.

### GENERAL SCHOOL OF EDUCATION ADVISING

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- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## **PEOPLE**

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu>)

## **RESOURCES AND SCHOLARSHIPS**

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## **EDUCATIONAL POLICY STUDIES, CERTIFICATE**

The educational policy studies undergraduate certificate program was designed specifically for undergraduate students from across the campus. The department offers multidisciplinary courses in the history,

sociology, and philosophy of education, comparative and international education, and in educational anthropology. Courses in policy analysis emphasize the social context and implications of policy decisions. The completion of the EPS certificate formalizes a student's interest in the multiple dimensions of this discipline.

Students interested in pursuing this certificate are encouraged to consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651.

## HOW TO GET IN

### DECLARATION PROCESS

Students must complete at least one Educational Policy Studies (ED POL) ([http://guide.wisc.edu/courses/ed\\_pol](http://guide.wisc.edu/courses/ed_pol)) course with a grade of B or better prior to applying to the certificate program. Students intending to complete the educational policy studies certificate should visit the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page to complete the declaration form.

Students pursuing the education studies major are not eligible to complete the educational policy studies certificate.

## REQUIREMENTS

### COURSE REQUIREMENTS

- Complete a minimum of five courses from the Department of Educational Policy Studies (15 credits).
- At least two courses must be at the advanced level.
- Students must earn a grade of at least a B in each educational policy studies course in order to count toward the certificate requirements.
- No more than 3 credits of independent study may count toward the 15 credits.

### VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements have been completed and (2) posts this information on the student's transcript.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu>)

## EDUCATIONAL PSYCHOLOGY

Although the department does not offer an undergraduate major, students from across the campus may take undergraduate courses in each of the major content areas: human development, learning sciences,

quantitative methods, and school psychology. The department also offers courses specific to teacher education programs.

Educational psychology is the academic home of the undergraduate certificate program in education and educational services (p. 1455). This certificate provides a cohesive set of courses for undergraduate students interested in the many aspects of education, but who choose not to major in education during their undergraduate degree. Students interested in child development, neuroscience and the process of learning, or education-related policies, for example, may wish to complement their current major with this substantive program in education.

## DEGREES/MAJORS/CERTIFICATES

- Education and Educational Services, Certificate (p. 1455)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Psychology can be found on the department's website. (<http://www.dance.wisc.edu>)

## EDUCATION AND EDUCATIONAL SERVICES, CERTIFICATE

Education is a topic of widespread interest to UW–Madison students and is one of the hotly contested subjects in today's politics and society. The Education and Educational Services (EES) Certificate Program provides a cohesive set of courses for undergraduate students interested in the many aspects of education, but who choose not to major in education during their undergraduate degree.

Students interested in child development, neuroscience and the process of learning, or education-related policies, for example, may wish to complement their current major with this substantive program in education. The certificate also provides grounding and learning experiences that will increase access to careers in education. Students completing the certificate may be considering future plans to:

- Enter a post-baccalaureate teacher education program.
- Pursue a graduate program focused on educational services, including programs such as counseling psychology, school psychology, and rehabilitation psychology.
- Complete advanced work in educational psychology or educational administration.
- Begin a career in teaching and learning settings and practices outside the K–12 education system.

This 15-credit certificate program offers a variety of course options that can be customized to each student's area of interest.

## HOW TO GET IN

### DECLARATION PROCESS

Students intending to complete the education and educational services certificate may find the declaration form on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

The declaration for this certificate program can be submitted at any time during the calendar year.

Please note: Students completing a course of study designed to lead to teacher certification are not eligible to complete the EES certificate. This also includes School of Education degree students pursuing the education studies or communication sciences and disorders majors. Other students completing a major within the School of Education are limited to 6 credits of overlap between their major and the certificate; that is, no more than 6 credits of coursework used to satisfy requirements for a major within the School of Education may also be counted toward completion of the EES certificate.

## REQUIREMENTS

Requirements of this 15-credit certificate program include both Foundation and Focus coursework. All coursework must be taken for a letter grade (not credit/no-credit or pass/fail) and students must earn at least a C grade in each course of the certificate. At least 12 credits of the certificate must be earned in residence at UW–Madison.

There is no formal prerequisite structure to the certificate, although students will generally be expected to take CURRIC 240 Critical Aspects of Teaching, Schooling, and Education first, followed by the two remaining Foundation courses and then the two Focus courses.

## FOUNDATION COURSES, 9 CREDITS

Code	Title	Credits
<b>Required Foundation Course</b> 3		
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	
<b>Social Context of Education</b> 3		
Select one of the following:		
ED POL 145	Introduction to Education Policy	
ED POL 300	School and Society	
ED POL/ INTL ST 335	Globalization and Education	
ED POL/ HISTORY 412	History of American Education	
ED POL 210	Youth, Education, and Society	
ELPA 640	Legal Rights and Responsibilities for Teachers	
<b>Individual Processes in Teaching and Learning</b> 3		
Select one of the following:		
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 301	How People Learn	
ED PSYCH 326	Mind, Brain and Education	
RP & SE 300	Individuals with Disabilities	

## FOCUS COURSE WORK, 6 CREDITS

Code	Title	Credits
Select from the following and any other Foundation courses: <sup>1</sup> 6		
COUN PSY 110	Human Resources Development: Career Strategies	
COUN PSY 115	Human Resources Development: Educational Effectiveness	
COUN PSY 225	Coming to Terms with Cultural Diversity: Invitation to Dialogue	
COUN PSY 230	Race and the Developing Child	
COUN PSY 300	Special Topics: Counseling and Counseling Psychology	
COUN PSY 325	Seminar: Students Seeking Educational Equity and Diversity (SEED)	
COUN PSY 650	Theory and Practice in Interviewing	
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	
CURRIC 277	Videogames & Learning	
CURRIC 375	Proseminar	
ELPA/ COUN PSY 350	Peer Leadership and Mentorship with Transitioning Students	
ELPA 502	Workshop in Educational Leadership and Policy Analysis	
ELPA/INTER- HE 660	Foundations of Education for Work	
ELPA/INTER- HE 661	Organization and Operation of Education for Work Programs	
ELPA/ COUN PSY 665	Career Development Throughout the Life Span	
ED POL/ HISTORY 107	The History of the University in the West	
ED POL 140	Introduction to Education	
ED POL 150	Education and Public Policy	
ED POL 200	Race, Ethnicity, and Inequality in American Education	
ED POL 450	Rethinking "After-School" Education	
ED POL 500	Topics on Social Issues and Education	
ED POL 505	Issues in Urban Education	
ED POL 510	Urban School Policy	
ED POL/CURRIC/ RELIG ST 516	Religion and Public Education	
ED POL 518	Introduction to Debates in Higher Education Policy	
ED POL/ AFROAMER 567	History of African American Education	
ED POL/ ANTHRO 570	Anthropology and Education	
ED POL 575	Education Policy and Practice	
ED POL/SOC 648	Sociology of Education	
ED PSYCH 506	Contemporary Issues in Educational Psychology	



ED PSYCH 540	Introduction to Professional School Psychology
ED PSYCH 541	Applied Behavior Analysis in Classrooms
ED PSYCH 542	The Biological Basis of Behavior
ED PSYCH 551	Quantitative Ethnography
ED PSYCH 563	Design of Educational Games and Simulations
ED PSYCH 570	Foundations of Educational Measurement
RP & SE 500	Rehabilitation-Counseling Psychology: Foundations

<sup>1</sup> Students may also substitute up to 3 credits of independent study with faculty from the departments of Coun Psy, Curric, ELPA, Ed Pol, Ed Psych or RP&SE. Independent study work with faculty from other School of Education departments may be considered; contact an advisor in Education Academic Services.

## VERIFICATION OF CERTIFICATE COMPLETION

Submit the certificate completion form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-programs>) during the semester that all certificate requirements will be completed. This form starts the administrative process that (1) verifies that the requirements have been completed and (2) posts this information on the student's transcript.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Psychology can be found on the department's website. (<http://www.dance.wisc.edu>)

## KINESIOLOGY

The study of movement, exercise, and occupation has the potential to dramatically impact health and quality of life. Department programs focus on the scientific study of exercise, movement, and human occupation, applying this study to health, physical education, and functional performance. The department's ultimate goal is to enhance human health, productivity, and quality of life.

The B.S. degree in athletic training (p. 1457) prepares students to become certified athletic trainers. The B.S. degree in kinesiology (p. 1466) prepares students for graduate or professional study, and the B.S. degree in physical education (p. 1472) prepares teacher education students to teach physical education in elementary and secondary schools.

The department also offers theory, activity, and leadership courses to improve understanding, appreciation, and use of the body in movement and sports. These classes are open to all university students.

## DEGREES/MAJORS/CERTIFICATES

- Athletic Training, B.S. (p. 1457)

- Health Education, Minor (p. 1465)
- Kinesiology, B.S. (p. 1466)
- Physical Education, B.S. (p. 1472)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<http://www.education.wisc.edu/kinesiology>)

## ATHLETIC TRAINING, B.S.

The Athletic Training Degree Program prepares students for healthcare careers as athletic trainers. Accredited by the Commission on Accreditation of Athletic Training Education (CAATE), the program provides students with an evidence-based theoretical and clinical foundation needed to succeed in a wide range of athletic training healthcare settings. Interested students should contact Andrew Winterstein, program director, at [andrew.winterstein@wisc.edu](mailto:andrew.winterstein@wisc.edu) ([winterstein@education.wisc.edu](mailto:winterstein@education.wisc.edu)).

This program places an emphasis on the basic sciences. In addition to introductory courses in athletic training, anatomy, and first aid, applicants must complete prerequisite coursework in biology, chemistry, and physics as part of the application process. Students must also complete a minimum of 20 hours of clinical observations (<https://kinesiology.education.wisc.edu/at/program>) prior to applying to the AT program.

The professional requirements include (1) athletic training courses that encompass the prevention, examination, diagnosis, treatment, and rehabilitation of emergent, acute or chronic injuries and medical conditions, (2) content area coursework in general medical issues with full-semester courses in nutrition and pharmacology, and (3) course credit for athletic training clinical and field work, including one experience taken in conjunction with a high school rotation.

The program is dedicated to maintaining a tradition of excellence (<https://kinesiology.education.wisc.edu/at/about/program-outcomes>) and outstanding program outcomes (<http://kinesiology.education.wisc.edu/docs/kinesiology-documents/at-by-the-numbers-2015.pdf?sfvrsn=0>). Interested students may enjoy the AT program video (<https://www.youtube.com/watch?v=2Jckqk5FS5Q&feature=youtu.be>).

**Note:** In May of 2015 the AT Strategic Alliance released an official statement (<http://caate.net/wp-content/uploads/2015/05/Strategic-Alliance-CCATE-email-pdf.pdf>) recommending elevation of the professional degree for athletic training to the **master's level**. Current programs that plan to continue preparing AT professionals will no longer be able to enroll students in bachelor's degree AT programs after the fall term of 2022. The AT Program at UW-Madison is in the planning stages of the degree transition and campus proposal process.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Admission to the Athletic Training Degree Program is limited and competitive. Students must meet the minimum eligibility requirements

outlined below to be considered for selection. Most students apply for admission during their sophomore year. Students are admitted to the program only once a year, effective for the summer following admission. Once admitted, students usually take two-and-a-half years to complete the professional part of the AT degree program.

## ENTERING THE SCHOOL OF EDUCATION

### NEW & CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in athletic training are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in the athletic training degree program or the exercise and movement science degree program within Kinesiology receive a classification of PKN. This classification indicates that a student is interested in one (or both) of these programs, but has not applied and been admitted to the professional part of the undergraduate program.

On-campus students wishing to be admitted to the School while working on eligibility requirements and application can apply for admission to the School of Education by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the School. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1459)). It is not necessary to be a “pre-professional” student before applying to a professional program. Admission as a “pre-professional” student does not guarantee admission to the professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the University to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree

is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## APPLICATION AND ADMISSION

Prospective applicants must complete prerequisite coursework for eligibility and should make progress toward meeting the School of Education’s Liberal Studies requirements. Students are admitted only once a year, effective for the summer following admission. Once admitted, students in Athletic Training typically spend two-and-a-half years completing remaining coursework.

Professional program applicants not already enrolled on the UW–Madison campus must be admissible to the University to enroll in a School of Education professional program. Thus, program admission is contingent upon admission to the campus. Admission to UW–Madison requires a separate application and admission process. See Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for application information.

### ELIGIBILITY FOR ADMISSION TO THE PROFESSIONAL PROGRAM

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education’s Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be eligible for admission, applicants must:

- complete at least 54 credits of college coursework by the end of the spring semester of the application year.
- complete the following coursework by the end of the spring semester of the application year:

Code	Title	Credits
<b>Biology Sequence</b>		
Complete one of the following Biology sequences:		
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	5
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	10
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	5
Advanced Placement (AP) Biology exam score of 4 or 5 <sup>2</sup>		
International Baccalaureate (IB) Biology exam score of 4 or 5 <sup>3</sup>		
<b>Chemistry Sequence</b>		
Complete one of the following Chemistry sequences:		

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	10

#### Physics Course

Complete one of the following Physics courses:

PHYSICS 103	General Physics	4
PHYSICS 201	General Physics	5
PHYSICS 207	General Physics	5

#### Kinesiology Course

KINES 119	Introduction to Kinesiology	2
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<sup>1</sup> Students who take this course at UW–Madison or transfer it from another campus must complete both BIOLOGY/BOTANY/ZOOLOGY 151 and BIOLOGY/BOTANY/ZOOLOGY 152 to be eligible for admission and to complete the degree requirements.

<sup>2</sup> Credit awarded for BIOLOGY/BOTANY/ZOOLOGY 151 via an AP Biology exam score of 4 or 5 fulfills the entire eligibility requirement for admission & the degree requirements.

<sup>3</sup> Credit awarded for BIOLOGY/BOTANY/ZOOLOGY 151 Introductory Biology via an IB Biology exam score of 4 or 5 fulfills the entire eligibility requirement for admission & the degree requirements.

- complete all but two of the prerequisite courses listed above by the end of the fall semester of the application year. **Exception:** Students enrolled in BIOLOGY/BOTANY/ZOOLOGY 152 during the spring semester of the application year may have this course **and** up to two additional prerequisites above in progress during the spring semester of the application year. For this purpose, CHEM 109 satisfies the full general chemistry requirement but constitutes **one** course. BIOLOGY/ZOOLOGY 101 and BIOLOGY/ZOOLOGY 102 are counted as **two** courses in determining eligibility for the program.
- complete these additional prerequisite courses by the end of the spring semester of the application year.

Code	Title	Credits
<b>Athletic Training Sequence</b>		
KINES 116	First Aid and Basic Life Support <sup>4</sup>	2
KINES 127	Introduction to Athletic Training	2
KINES 197	Techniques in Athletic Training	1
KINES 227	Introduction to Clinical Anatomy of Human Movement	2

<sup>4</sup> Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of KINES 116. First Aid certification may substitute for the first aid portion of Kines 116. Students possessing current certifications may submit documentation and request a waiver of KINES 116. Students must present both certifications (CPR/AED and first aid) to exempt from the class.

- Athletic Training Experience—Complete a minimum of twenty (20) total hours of volunteer or observation experiences in athletic training. Students must gain experience in at least two different locations. Each experience must be a minimum of (10) hours in length.

Documentation of the experience (forms signed by certified athletic trainers) must be submitted along with application materials by the application deadline. Students may seek observational experiences in any setting employing a certified athletic trainer where the athletic trainer is performing job duties consistent with the BOC Role Delineation domains of athletic training.

- earn a minimum 2.75 cumulative GPA or last 60 credits GPA by the end of the fall semester of the application year.<sup>5</sup>
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>5</sup> A comprehensive cumulative GPA of all college-level, transferable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using:

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## APPLICATION REVIEW AND SELECTION

Applicants to the Athletic Training Degree Program will compete for an identified number of admission openings assigned to this program. Each application will be reviewed by at least two academic faculty or staff from the Admissions Committee. Each committee member will independently examine and rate applicants' files on a scale of 1 (do not accept) to 5 (definitely accept) based on the criteria above. Committee members will then share and discuss their ratings and select the final cohort for admission.

#### The Admissions Committee will review application files with four key areas in mind:

- **Academic Qualifications.** The athletic training program seeks students with strong academic credentials. This includes cumulative undergraduate grade point average (GPA), course selection and trend of college grades.
- **Goals.** The required personal statement provides an opportunity for students to express their reasons for

studying kinesiology and can provide insight into the student's long-term goals.

- **Recommendation Letters.** Thoughtful letters from teachers or employers addressing the student's interest and experience are beneficial to the selection process. Recommendation letters should provide information about a student's intellect, imagination, or diligence that is not evident in other parts of the application.
- **Other Contributions.** The athletic training program seeks students whose diverse work experience, life experience, stated goals, and cultural background are assets to the learning environment in the program.

## PROVISIONAL ADMISSION

Students will be provisionally accepted in April. The offer of admission will be revoked and the student withdrawn from fall Kinesiology courses (typically during July) if any of the following requirements are not met:

- All prerequisite courses completed by the end of the spring semester of the application year.
- Maintenance of a cumulative GPA or last 60-credit GPA of at least 2.75.

## TECHNICAL STANDARDS

The Athletic Training Degree Program at the University of Wisconsin–Madison is a rigorous and intensive program that places specific requirements and demands on the students enrolled in the program. For this reason the program has established Technical Standards for program completion.

Students must document that they are in compliance with the program's Technical Standards as a condition of accepting program admission. Students who feel they are not in compliance with the above standards are encouraged to seek evaluation and assistance from the McBurney Disability Resource Center.

## CRIMINAL BACKGROUND INVESTIGATION

Criminal background investigations will be conducted for all students admitted to this program. Detailed instructions on how to complete the required criminal background check will be included in offers of admission. This is not completed until after an applicant has been offered admission.

Results of criminal background checks may be shared with other agencies when required by state code, or with a cooperating school or other agency in which the student has been assigned to complete field experiences. Criminal background checks may also be run on students by school districts. Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. Field site administrators have the right to determine the appropriateness of a student placement.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## ADVISING AFTER ADMISSION

Included with the offer of admission is information about mandatory spring orientation sessions for new majors, led by a departmental advisor.

Sequencing of coursework and enrollment in Kinesiology courses will be addressed at these meetings. Students will be authorized to enroll in Kinesiology courses after the orientation meetings are completed. Upon formal admission to the program, advising about the major will be provided by the Department of Kinesiology. Majors are required to meet with the departmental advisor at least once per semester. All questions about School of Education and University requirements should be referred to an advisor in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The Athletic Training program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Science core* coursework offers in-depth study of the basic sciences and mathematics.
- *Kinesiology core* courses look at how the body responds and adapts to exercise, the role of psychological factors in sports and exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the life span.
- *Advanced coursework in Athletic Training* that focuses on evidence-guided practice and patient-centered care in the prevention, management, and rehabilitation of injuries and illnesses.
- *Elective classes* that are generally related to the student's area of study.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## SCIENCE CORE

Code	Title	Credits
Select one of the following:		
5-10		

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Select one of the following:		4-10
AP or IB Biology score of 4 or above		
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
Select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
MATH 221	Calculus and Analytic Geometry 1 (Meets General Education Quantitative Reasoning B requirement)	5
or MATH 211	Calculus	
STAT 371	Introductory Applied Statistics for the Life Sciences (STAT 371 is preferred)	3
or PSYCH 210	Basic Statistics for Psychology	
PHYSIOL 335	Physiology	5
ANATOMY/ KINES 328	Human Anatomy <sup>1</sup>	3
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2
Select one of the following:		3-4
PSYCH 201	Introduction to Psychology	
PSYCH 202	Introduction to Psychology	
PSYCH 281	Honors Course-Introduction to Psychology	

<sup>1</sup> Effective fall 2017, Anatomy/Kines 328 and 329 will be replaced by Kines 337 and 338.

## KINESIOLOGY CORE

Code	Title	Credits
KINES 119	Introduction to Kinesiology <sup>1</sup>	2
KINES 227	Introduction to Clinical Anatomy of Human Movement	2
KINES 314	Physiology of Exercise	4
KINES 318	Biomechanics of Human Movement	3
KINES 330	Research in Kinesiology	2

KINES 350	Introduction to Exercise Psychology <sup>1</sup>	3
KINES 361	Motor Learning and Performance	3
KINES 116	First Aid and Basic Life Support <sup>1 2</sup>	2

<sup>1</sup> KINES 116, KINES 119 and KINES 350 can be taken prior to program admission.

<sup>2</sup> Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of KINES 116. First Aid certification may substitute for the first aid portion of KINES 116. Students must present both certifications (CPR/AED and first aid) to exempt from KINES 116.

## ATHLETIC TRAINING CORE

Students with an interest in Athletic Training should enroll in KINES 127, KINES 197 and KINES 227. First-year students are eligible and encouraged to take KINES 127 and KINES 197. Enrollment in KINES 227 requires completion of, or concurrent enrollment in Kines 127, or consent of the instructor. These three introductory courses are the only athletic training courses that may be taken prior to program admission.

KINES 301, KINES 317, KINES 357, KINES 358 and KINES 450 provide required clinical field experiences in athletic training settings.

Code	Title	Credits
KINES 127	Introduction to Athletic Training	2
KINES 197	Techniques in Athletic Training	1
KINES 301	Advanced Techniques in Athletic Training	2
KINES 317	Evaluation and Diagnosis of Orthopedic Conditions	4
KINES 357	Therapeutic Strategies in Athletic Training I	4
KINES 358	Therapeutic Strategies in Athletic Training II	4
KINES 400	Organization and Administration of Athletic Training Programs	3
KINES 417	Advanced Clinical Assessment Techniques in Athletic Training	2
KINES 450	Clinical Field Experience in Athletic Training (take twice for a total of 6 credits)	3
KINES 457	Medical Problems of Exercise and Sports	3
KINES 475	Seminar in Athletic Training	1
NUTR SCI 332 or KINES/ NUTR SCI 525	Human Nutritional Needs Nutrition in Physical Activity and Health	3
PHM SCI 401	Survey of Pharmacology	3

## ADDITIONAL ELECTIVES

Select additional electives as necessary to bring credit total to 120

## TECHNICAL STANDARDS—ATHLETIC TRAINING PROGRAM

The Athletic Training Program at the University of Wisconsin–Madison is a rigorous and intense program that places specific requirements

and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Athletic Training Education).

### Details of Required Technical Standards

Compliance with the program's technical standards does not guarantee a student's eligibility for the Board of Certification exam. A candidate for the Athletic Training Program at the University of Wisconsin–Madison must have abilities and skills in five categories: observation, communication, motor, intellectual, and behavioral/social. Reasonable accommodation for persons with documented disabilities will be considered on an individual basis, but a candidate must be able to perform in an independent manner. **The following skills are required, with or without accommodation.**

**Observation:** Candidates must have sufficient sensory capacity to observe in the lecture hall, the laboratory, the outpatient clinical setting, and in direct patient interaction. Sensory skills adequate to perform a physical examination are required. Functional vision, hearing and tactile sensation must be adequate to observe a patient's condition and to elicit information through procedures regularly required in a physical examination, such as inspection, palpation, and special tests.

**Communication:** Candidates must be able to communicate effectively in both academic and health care settings. Candidates must show evidence of effective written and verbal communication skills. Students for whom English is a second language must have a facility in English adequate for university work. Results of the ESL assessment test may require students to take one or more English courses in English as a second language.

**Motor:** The ability to participate in basic diagnostic and therapeutic maneuvers and procedures (e.g. palpation, auscultation) is required. Candidates must have sufficient motor function to execute movements reasonably required to provide care to patients. Candidates must be able to negotiate patient care environments and must be able to move between settings, such as classroom building and clinical setting. Physical stamina sufficient to complete the rigorous course of didactic and clinical study is required. Long periods of sitting, standing, or moving are required in classroom, laboratory, and clinical experiences.

**Intellectual:** Candidates must be able to measure, calculate, reason, analyze and synthesize. Problem solving, one of the critical skills demanded of athletic trainers, requires all of these intellectual abilities. In addition, candidates should be able to comprehend three-dimensional relationships and understand the spatial relationships of structures. Candidates must be able to read and understand allied health and medical literature. In order to complete the Athletic Training Program, candidates must be able to demonstrate mastery of these

skills and the ability to use them together in a timely fashion in problem-solving and patient care.

**Behavioral and social attributes:** Candidates must possess the emotional health required for full utilization of their intellectual abilities, the exercise of good judgment, and the prompt completion of all academic and patient care responsibilities. The development of mature, sensitive and effective relationships with patients and other members of the health care team are essential. The ability to function in the face of uncertainties inherent in clinical practice, flexibility, compassion, integrity, motivation, interpersonal skills, and concern for others are all required.

Students who feel they are in compliance with the above standards must fill out the Technical Standards Signature Form and submit it with their application materials.

Students who feel they are not in compliance with the above standards are encouraged to seek evaluation and assistance from the McBurney Disability Resource Center.

McBurney Disability Resource Center  
702 West Johnson Street, Suite 2104  
Madison, WI 53715  
phone: 608-263-2741  
text: 608-225-7956  
mcburney@studentlife.wisc.edu

The UW–Madison Athletic Training Program complies with all federal and state laws and university policies including Affirmative Action and Equal Opportunity (<http://www.wisc.edu/policies/aaeo>).

## CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW–Madison campus coursework. Consult the School of Education's Academic Policies and Procedures (p. 1227) for additional information about the continuation requirement.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW-Madison coursework.

- Must earn a minimum 2.75 cumulative grade point average. Graduation GPA may be modified by the Last 60 Credits Rule (p. 1227).
- Major residency: Students must complete a minimum of 15 credits from the Department of Kinesiology while enrolled on the UW–Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Must complete a minimum of 120 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in My UW–Madison. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Understand the role of the athletic trainer within the broader health care system. Demonstrate appropriate oral and written communication skills.
2. Develop and apply strategies to prevent the incidence and/or severity of injury and illnesses.
3. Demonstrate the clinical skills needed to appropriately diagnose patients for treatment and referral.

4. Apply clinical and decision making skills to respond to acute injury and illness; including emergencies.
5. Assess patient status and develop treatment and rehabilitation that are consistent with contemporary disablement models.
6. Maintain the highest standards of evidence-guided clinical practice by formulating clinical questions, incorporating evidence into clinical practice, and examining the quality of patient care through the use of patient outcomes.

## ADVISING AND CAREERS

### ATHLETIC TRAINING ADVISING

Students not yet admitted to athletic training (pre-professional classification of PKN) meet with their assigned advisor in Education Academic Services (EAS) and/or the Office of Undergraduate Recruitment and Retention (OURR), see below. Interested students should also contact Andrew Winterstein, program director, at [andrew.winterstein@wisc.edu](mailto:andrew.winterstein@wisc.edu) ([winterstein@education.wisc.edu](mailto:winterstein@education.wisc.edu)).

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional



and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.

- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<http://www.education.wisc.edu/kinesiology>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the School's Resources (p. 1247) page.

## HEALTH EDUCATION, MINOR

The health minor may be completed by students in physical education or by teachers already licensed to teach at an appropriate level in Wisconsin.

This minor prepares teachers to (1) teach health as a separate course or as a planned integral part of other areas of instruction and (2) assist the school administration and teaching staff in developing a broad school health program.

Certification in a major area of interest must accompany the completion of this minor; students cannot be certified to only teach health.

## HOW TO GET IN

Upon admission into their teacher education degree program in the School of Education, students should meet immediately with the health education program advisor, Bonnie Klassy ([bjklassy@wisc.edu](mailto:bjklassy@wisc.edu)), to work out a schedule and to be authorized for the following required courses:

Code	Title	Credits
KINES/CURRIC/ ELPA 541	Organization and Administration of School Health Programs	3
KINES/CURRIC 542	Teacher Education About Alcohol and Other Drugs	3
KINES/CURRIC 561	Teacher Education in Human Sexuality	3
KINES/CURRIC 567	Issues, Materials and Methods in Health Education	3

Registration in this coursework is contingent upon this meeting.

To indicate their intent to complete the health education minor, students should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

Complete a minimum of 30 credits to include all coursework below. A minimum 2.75 GPA is required, based on all UW-Madison coursework included in the minor requirements.

The program coordinator for the health minor is Bonnie Klassy, [bjklassy@wisc.edu](mailto:bjklassy@wisc.edu). Students may also wish to consult with advising staff at Education Academic Services (EAS), Room 139 Education Building, 1000 Bascom Mall, 608-262-1651.

Upon acceptance into a major program in the School of Education, students should meet immediately with the health education program advisor to work out a schedule and to be authorized for required Kines/Curric courses KINES/CURRIC/ELPA 541, KINES/CURRIC 542, KINES/CURRIC 561, and KINES/CURRIC 567. Registration in this coursework is contingent upon this meeting.

## CORE REQUIREMENTS (22–24 CREDITS)

Code	Title	Credits
KINES 116	First Aid and Basic Life Support <sup>1</sup>	2
PHYSIOL 335	Physiology	5
KINES/CURRIC 501	Health Information for Teachers	3
KINES/CURRIC/ ELPA 541	Organization and Administration of School Health Programs	3
KINES/CURRIC 542	Teacher Education About Alcohol and Other Drugs	3
KINES/CURRIC 561	Teacher Education in Human Sexuality	3
KINES/CURRIC 567	Issues, Materials and Methods in Health Education	3
CURRIC 457	Student Teaching in Health Education <sup>2</sup>	2

<sup>1</sup> Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of KINES 116. First Aid certification may substitute for the first aid portion of KINES 116. Students must present both certifications (CPR/AED and first aid) to exempt from KINES 116. Documentation of current certification (either adult or child) must be presented to the health education program advisor. If the certification equivalent is used, the minor will require 30 credits.

<sup>2</sup> Eligibility for student teaching requires the completion of all courses required for the minor with a minimum GPA of 2.75. Students must take and pass a content exam (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A meeting with the health education advisor is required before submitting a student teaching application. Students should bring a current transcript to this meeting. Special arrangements can be made for teachers seeking add-on certification in Health.

## BREADTH REQUIREMENTS (8 CREDITS)

Choose from the following list. A wide variety of other relevant courses related to teaching about health are offered on campus. Substitution of another course (maximum of 3 credits) is possible, but must be approved in advance by the health program advisor.

Code	Title	Credits
CNSR SCI 478	Consumer Information	3
COM ARTS 325	Media and Human Behavior	3
FOOD SCI 120	Science of Food	3
NUTR SCI 132	Nutrition Today	3
NUTR SCI/A A E/ AGRONOMY/INTER- AG 350	World Hunger and Malnutrition	3
KINES 100	Exercise, Nutrition, and Health	2
SOC/PSYCH 160	Human Sexuality: Social and Psychological Issues	3-4
SOC WORK/ NURSING/S&A PHM/ THER SCI 105	Health Care Systems: Interdisciplinary Approach	2
SOC WORK 453	Alcohol and Other Drug Abuse	2-4
ENVIR ST 112	Environmental Studies: The Social Perspective	3

## KINESIOLOGY, B.S.

Exercise and movement science is one of three undergraduate majors offered in the Department of Kinesiology. The department's mission is to research, teach, and apply knowledge related to movement, exercise, and human occupation with the ultimate goal of enhancing human health, productivity, and quality of life.

Students in the exercise and movement science major take coursework grounded in the basic sciences (e.g., physiology, anatomy, physics) and in kinesiology. Core courses examine, for example, how the body responds to physical activity, the role of physiological and psychological factors in exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the lifespan.

The curriculum includes coursework, laboratory research opportunities, and hands-on learning experiences. In addition, at least 11 credits of electives in exercise and movement science are required, giving students some flexibility to tailor the program to their specific interests.

The exercise and movement science major is a pre-professional program. This means that our students are well prepared for subsequent graduate or professional training in different health-related disciplines such as physical therapy, occupational therapy, medicine, or biomedical research. In addition, the major prepares students for graduate training programs in kinesiology (e.g., exercise physiology, cardiac rehabilitation,

biomechanics, physical activity epidemiology, exercise psychology, motor learning). Exercise and movement science graduates may also pursue entry-level careers in the fitness area.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Admission to the Kinesiology–Exercise and Movement Science degree program is limited and competitive. Students must meet the minimum eligibility requirements outlined below to be considered for selection. Students are admitted to the program only once a year, effective for the summer following selection. Once admitted, exercise and movement science students typically spend two years completing their remaining coursework.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in kinesiology are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in the exercise and movement science degree program within Kinesiology or the athletic training degree program receive a classification of PKN. This classification indicates that a student is interested in one (or both) of these programs, but has not applied and been admitted to the professional part of the undergraduate program.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the School of Education by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the School. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1468)). It is not necessary to be a “pre-professional” student before applying to a professional program. Admission as a “pre-professional” student does not guarantee admission to the professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic

Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## APPLICATION AND ADMISSION

Prospective applicants must complete prerequisite coursework for eligibility and should make progress toward meeting the School of Education's Liberal Studies requirements. Students typically apply for admission during the sophomore year. Students are admitted only once a year, effective for the summer following admission. Once admitted, exercise and movement science students typically spend two years completing remaining coursework.

Professional program applicants not already enrolled on the UW–Madison campus must be admissible to the University to enroll in a School of Education professional program. Thus, program admission is contingent upon admission to the campus. Admission to UW–Madison requires a separate application and admission process. Prospective applicants not already enrolled on the UW–Madison campus are strongly encouraged to contact an academic advisor in Education Academic Services for assistance with planning their applications to both the professional program and to the UW–Madison campus. See Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for application information.

## ELIGIBILITY FOR ADMISSION TO THE PROFESSIONAL PROGRAM

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be eligible for admission, applicants must:

- complete at least 54 credits of college coursework by the end of the spring semester of the application year.
- complete the following prerequisite coursework by the end of the spring semester of the application year.

Code	Title	Credits
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#### Biology Sequence

Complete one of the following Biology sequences:

BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	5
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	10
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	5

Advanced Placement (AP) Biology exam score of 4 or 5 <sup>2</sup>

International Baccalaureate (IB) Biology exam score of 4 or 5 <sup>3</sup>

#### Chemistry Sequence

Complete one of the following Chemistry sequences:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	10

#### Physics Course

Complete one of the following Physics courses:

PHYSICS 103	General Physics	4
PHYSICS 201	General Physics	5
PHYSICS 207	General Physics	5

#### Kinesiology Course

KINES 119	Introduction to Kinesiology	2
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<sup>1</sup> Students who take BIOLOGY/BOTANY/ZOOLOGY 151 at UW–Madison or transfer it from another campus must complete both BIOLOGY/BOTANY/ZOOLOGY 151 and BIOLOGY/BOTANY/ZOOLOGY 152 to be eligible for admission and to complete the degree requirements.

<sup>2</sup> Credit awarded for BIOLOGY/BOTANY/ZOOLOGY 151 via an AP Biology exam score of 4 or 5 fulfills the entire eligibility requirement for admission & the degree requirements.

<sup>3</sup> Credit awarded for BIOLOGY/BOTANY/ZOOLOGY 151 via an IB Biology exam score of 4 or 5 fulfills the entire eligibility requirement for admission & the degree requirements.

- complete all but two of the prerequisite courses listed above by the end of the fall semester of the application year. **Exception:** Students enrolled in BIOLOGY/BOTANY/ZOOLOGY 152 during the spring semester of the application year may have this course and up to two additional prerequisites above in progress during the spring semester of the application year. For this purpose, Advanced General Chemistry (CHEM 109) satisfies the full general chemistry requirement but constitutes one course. BIOLOGY/ZOOLOGY 101 Animal Biology and BIOLOGY/ZOOLOGY 102 Animal Biology Laboratory are counted as two courses in determining eligibility for the program.
- earn a minimum 2.75 cumulative GPA or last 60 credits GPA by the end of the fall semester of the application year (see "Last 60 Credits Rule," below).<sup>4</sup>
- submit completed program application form(s), transcripts, and all other related application materials by the application

deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

- 4 A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## APPLICATION REVIEW AND SELECTION

Applicants to the Exercise and Movement Science Degree Program in Kinesiology will compete for an identified number of admission openings assigned to this program. Each application will be reviewed by at least two academic faculty or staff from the Admissions Committee. Each committee member will independently examine and rate applicants' files on a scale of 1 (do not accept) to 5 (definitely accept) based on the criteria above. Committee members will then share and discuss their ratings and select the final cohort for admission.

### The Admissions Committee will review application files with four key areas in mind:

- **Academic Qualifications.** The kinesiology program seeks students with strong academic credentials. This includes cumulative undergraduate grade point average (GPA), course selection and trend of college grades.
- **Goals.** The required personal statement provides an opportunity for students to express their reasons for studying kinesiology and can provide insight into the student's long-term goals.
- **Recommendation Letters.** Thoughtful letters from teachers or employers addressing the student's interest and experience are beneficial to the selection process. Recommendation letters should provide information about a student's intellect, imagination, or diligence that is not evident in other parts of the application.
- **Other Contributions.** The kinesiology program seeks students whose diverse work experience, life experience, stated goals, and cultural background are assets to the learning environment in the kinesiology program.

## PROVISIONAL ADMISSION

Students will be provisionally accepted in April. The offer of admission will be revoked and the student withdrawn from fall Kinesiology courses (typically during July) if any of the following requirements are not met:

- All prerequisite courses completed by the end of the spring semester of the application year.
- Maintenance of a cumulative GPA or last 60-credit GPA of at least 2.75.

## CRIMINAL BACKGROUND INVESTIGATION

Criminal background investigations will be conducted for all students admitted to this program. Detailed instructions on how to complete the required criminal background check will be included in offers of admission. This is not completed until after an applicant has been offered admission.

Results of criminal background checks may be shared with other agencies when required by state code, or with a cooperating school or other agency in which the student has been assigned to complete field experiences. Criminal background checks may also be run on students by school districts. Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. Field site administrators have the right to determine the appropriateness of a student placement.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## ADVISING AFTER ADMISSION

Included with the offer of admission is information about mandatory spring orientation sessions for new majors, led by a departmental advisor. Sequencing of coursework and enrollment in Kinesiology courses will be addressed at these meetings. Students will be authorized to enroll in Kinesiology courses after the orientation meetings are completed. Upon formal admission to the program, advising about the major will be provided by the Department of Kinesiology. Majors are required to meet with the departmental advisor at least once per semester. All questions about School of Education and university requirements should be referred to an advisor in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

### Requirements Detail

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

## PROGRAM STRUCTURE

The Exercise and Movement Science degree program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Science core* coursework offers in-depth study of the basic sciences and mathematics.
- *Kinesiology core* courses look at how the body responds and adapts to exercise, the role of psychological factors in sports and exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the life span.
- *Advanced coursework in Exercise and Movement Science* requires at least 11 credits of Kinesiology electives, thus giving students some flexibility to tailor the program to their specific interests.
- *Elective* classes are generally related to the student's area of study and are taken to reach the minimum of 120 credits.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

### Complete Liberal Studies Electives (p. 1234) to total 40 Credits.

## SCIENCE CORE

Code	Title	Credits
Select one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Select one of the following:		4-10
AP or IB Biology score of 4 or above		
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
Select one of the following:		4-5

PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
Select one of the following:		3-4
PSYCH 201	Introduction to Psychology	
PSYCH 202	Introduction to Psychology	
PSYCH 281	Honors Course-Introduction to Psychology	

Code	Title	Credits
Complete the following:		
MATH 221 or MATH 211	Calculus and Analytic Geometry 1 Calculus	5
STAT 371	Introductory Applied Statistics for the Life Sciences	3
or PSYCH 210	Basic Statistics for Psychology	
PHYSIOL 335	Physiology	5
ANATOMY/ KINES 328	Human Anatomy <sup>1</sup>	3
ANATOMY/ KINES 329	Human Anatomy-Kinesiology <sup>1</sup>	2

<sup>1</sup> Effective fall 2017, Anatomy/Kines 328 and 329 will be replaced by Kines 337 and 338.

## KINESIOLOGY CORE

Code	Title	Credits
KINES 116	First Aid and Basic Life Support <sup>1 2</sup>	2
KINES 119	Introduction to Kinesiology <sup>1</sup>	2
KINES 300	Practicum in Kinesiology	3
KINES 314	Physiology of Exercise	4
KINES 318	Biomechanics of Human Movement	3
KINES 330	Research in Kinesiology	2
KINES 350	Introduction to Exercise Psychology <sup>1</sup>	3
KINES 361	Motor Learning and Performance	3

<sup>1</sup> KINES 116, KINES 119 and KINES 350 may be taken prior to admission into the professional part of the undergraduate program.

<sup>2</sup> Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of KINES 116. First Aid certification may substitute for the first aid portion of KINES 116. Students must present both certifications (CPR/AED and first aid) to exempt from KINES 116.

## EXERCISE AND MOVEMENT SCIENCE CORE

Select at least 11 credits from the following:

Code	Title	Credits
KINES 325	Group Development and Behavior Management	3

KINES 360	Lifespan Motor Development	3
KINES 390	Principles of Exercise Leadership	2
KINES 427	Fitness Testing and Exercise Prescription	3
KINES/CURRIC 501	Health Information for Teachers	3
KINES 508	Workshop in Kinesiology (Topic: Theories and Strategies for Behavioral Change)	3
KINES/MEDICINE/ NURSING 523	Clinical Exercise Testing & Training	3
KINES/ NUTR SCI 525	Nutrition in Physical Activity and Health	3
KINES 527	Principles of Strength and Conditioning	3
KINES 531	Neural Control of Movement	3
KINES 614	Biological Factors Influencing Exercise Performance	3
KINES 615	Laboratory Techniques in Exercise Physiology	2
KINES 618	Biomechanics	2-3

Select one of the following:

Code	Title	Credits
KINES 355	Socio-Cultural Aspects of Physical Activity	3
KINES 516	Physical Activity for Diverse Abilities	3
KINES 521	Physical Activity and Health	3
KINES 600	Advanced Exercise Psychology	3

## ELECTIVE COURSEWORK

Select additional courses to reach the minimum of 120 credits.

## CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW–Madison campus coursework. Consult the School of Education's Academic Policies and Procedures (p. 1227) for additional information about the Continuation requirement.

## GPA AND OTHER GRADUATION REQUIREMENTS

These requirements are based on UW-Madison coursework.

- Must earn a minimum 2.75 cumulative grade point average. Graduation GPA may be modified by the Last 60 Credits Rule (p. 1227).
- Major residency: Students must complete a minimum of 15 credits from the Department of Kinesiology while enrolled on the UW–Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.

- Must complete a minimum of 120 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

- 1. Knowledge**
  - a. Students will be able to define and explain major concepts across the breadth of kinesiology.
- 2. Application**

- a. Students will be able to apply their knowledge related to movement and physical activity techniques and approaches in clinical and applied settings to enhance human health and quality of life.
- 3. Critical Thinking**
    - a. Students will demonstrate competence in the scientific research process, which includes the ability to consume, analyze, interpret and critically review scientific literature.
  - 4. Communication**
    - a. Students will develop appropriate styles of written and oral communication to use both within and outside of the scientific community.

## ADVISING AND CAREERS

### EXERCISE AND MOVEMENT SCIENCE ADVISING

Students not yet admitted to Kinesiology: Exercise and Movement Science meet with advising staff in Education Academic Services (EAS) and/or the Office of Undergraduate Recruitment and Retention (OURR), see below. Once admitted to the professional program, students are also advised in the Department of Kinesiology.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty

members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651  
[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for

career/major selection. It includes strategies for making the most of a student's academic and student experience.

- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<http://www.education.wisc.edu/kinesiology>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## PHYSICAL EDUCATION, B.S.

The bachelor of science degree in physical education prepares individuals for careers in a variety of areas. At the heart of the degree is the physical education teacher education program, which has been preparing excellent physical educators since 1911. The bachelor of science degree in physical education is the key to obtaining physical education teaching positions in Wisconsin, other states, and internationally.

A degree in physical education also readies individuals for teaching positions outside of school settings. Graduates of the program have pursued successful careers in many positions unrelated to teaching. Program alumni are well represented in the areas of coaching and officiating, recreation, fitness, healthcare, and sport management.



The careers of some of our physical education alumni are highlighted here. (<http://guide.wisc.edu/undergraduate/education/kinesiology/physical-education-bs/%20https://kinesiology.education.wisc.edu/pete/alumni>)

UW–Madison’s PE program has recently been redesigned to address emerging trends in physical education pedagogy. Critical elements of the new curriculum include:

- A cutting-edge conceptual approach to teaching physical education
- “Hands-on” guided teaching
- An emphasis on urban, inclusive, and multicultural settings
- Community building and behavior management activities
- Completion of the degree in four years

Physical education students also benefit from:

- Nationally and state recognized faculty and staff members
- Certification options in Adapted Physical Education and Health Education
- Small class sizes and advising groups
- A strong PE science and technology based curriculum
- Instruction within the nationally ranked UW–Madison School of Education

Graduates are eligible to apply for a Wisconsin Physical Education license at the *Early Childhood through Adolescence* (Pre–K through 12) level.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Undergraduate physical education students generally apply to the professional part of the physical education degree program in their sophomore year. Currently, students are admitted to the program twice a year, effective for the fall or spring semester following selection. Once admitted, students typically spend five semesters completing their remaining coursework.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

New freshmen and transfer students interested in physical education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in physical education receive a pre-classification of PED. This classification indicates that a student is interested in physical education, but has not applied and been admitted to the professional part of the undergraduate program.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the School of Education by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the School. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1474)). It is not necessary to be a “pre-professional” student before applying to a

professional program. To remain in good standing, students with a PED classification must maintain campus and semester GPAs of 2.75, as modified by the Last 60 Credits rule. Admission as a “pre-professional” student does not guarantee admission to the professional program.

It is strongly recommended that students interested in physical education consult with an advisor in the Kinesiology department. It would also be helpful to speak with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the University to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this “certification only” coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

Certification to teach physical education requires that a student be admitted into the professional part of the degree program. The School of Education admits students into the physical education program twice a year, effective for the fall or spring semester following selection. Resources limit the number of students who can be served by the UW–Madison Physical Education Teacher Education Program. In recent years the physical education program has been able to accommodate all qualified applicants; however, if the number of qualified applicants to physical education exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

### PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education’s Apply to a Program (<http://>

[www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission)) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be considered for admission to the professional program, students must meet the following criteria:

- Total Credits/Prerequisite Coursework: Earn 40 or more credits by the end of the semester in which the application is submitted, including the following prerequisite courses:
  - KINES 116 First Aid and Basic Life Support (2 cr), or exemption. Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of Kines 116. First Aid certification may substitute for the first aid portion of Kines 116. Students possessing current certifications may submit documentation and request a waiver of KINES 116. Students must present both certifications (CPR/AED and first aid) to exempt from the class.
  - KINES 119 Introduction to Kinesiology (2 cr)
- Cumulative Grade Point Average: Earn a minimum 2.75 (on a 4.00 scale) cumulative GPA on all college coursework attempted or a 2.75 cumulative GPA based on the Last 60 Credits Rule (detailed below (p. 1474)) by the end of summer of the application year.<sup>1</sup> This 2.75 GPA must be maintained through the semester during which the application is submitted to remain eligible for admission.
- Complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- Submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) Currently, retention and graduation GPAs are based on all credits attempted at UW–Madison as an undergraduate student. If each semester's GPA after admission to the program meets the required GPA for retention, the student will be allowed to continue and complete the program. More information on this rule is available here (p. 1227).

## ADMISSION CRITERIA

The Admissions Committee will review application files with three key areas in mind:

- **Academic Qualifications:** The Department of Kinesiology and the Physical Education Teacher Education Program seek students with strong academic credentials. This includes cumulative undergraduate grade point average (GPA), course selection, and trend of college grades.
- **Goals:** The required personal statement provides an opportunity for students to express their reasons for pursuing a career in physical education and what has shaped their desire to do so. The admissions committee expects applicants to have a foundational understanding of physical education and to have a sense of some of the issues that physical educators face. Observing or volunteering in physical education settings can help applicants demonstrate an understanding of the field.
- **Other Contributions:** The Department of Kinesiology and the Physical Education Teacher Education Program seek students whose diverse work experiences, life experience, stated goals, and cultural background are assets to the learning environment in both the department and the professional program.

## APPLICATION REVIEW AND SELECTION

Applicants to the Physical Education Teacher Education Program will compete for a specific number of openings in the program. Each application will be reviewed by at least two academic faculty or staff from the Admissions Committee. Each committee member will independently examine and rate applicants' files on a scale of 1 (do not accept) to 5 (definitely accept) using a holistic view based on the criteria above. The committee members will then share and discuss their ratings and select the final cohort for admission.

Students will be provisionally accepted in December or May. The offer of admission will be revoked and the student withdrawn from subsequent Kinesiology courses (typically during January or August) if any of the following requirements are not met:

- All prerequisite courses completed by the end of the semester in which the application is submitted.
- Maintenance of a cumulative GPA of last 60-credit GPA of at least 2.75.

If there are more eligible applicants than spaces available, eligible applicants will be rank-ordered for admission based on

1. cumulative GPA or 60-credit GPA and

- 2. nonacademic factors.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The Physical Education program has six components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Science Core* coursework offers in-depth study of the basic sciences and mathematics.

- *Kinesiology Core* courses look at how the body responds and adapts to exercise, the role of psychological factors in sports and exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the life span.
- The *Physical Education requirements* focus on advanced study in Physical Education pedagogy, including teaching methods coursework and field experiences in the schools.
- *Education* coursework includes an examination of the school's relationship to our society and also of the processes by which students grow and learn.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

While not required, teaching certifications in Adapted Physical Education (<http://kinesiology.education.wisc.edu/kinesiology/academics/undergraduate-programs/adapted-physical-activity>) and Health Education (p. 1465) are also offered.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science

- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## SCIENCE AND KINESIOLOGY CORE COURSES

With the exception of Kines 116, 119 and 121, Kinesiology coursework must be taken after admission into the professional part of the undergraduate program.

Code	Title	Credits
MATH 112	Algebra	3
CHEM 103 or CHEM 108	General Chemistry I Chemistry in Our World	4-5
ANATOMY/ KINES 328 & ANATOMY/ KINES 329	Human Anatomy and Human Anatomy-Kinesiology <sup>1</sup>	5
PHYSIOL 335	Physiology	5
KINES 116	First Aid and Basic Life Support <sup>2</sup>	2
KINES 119	Introduction to Kinesiology	2
KINES 314	Physiology of Exercise	4
KINES 318	Biomechanics of Human Movement	3
KINES 350	Introduction to Exercise Psychology	3
KINES 361	Motor Learning and Performance	3

<sup>1</sup> Effective fall 2017, Anatomy/Kines 328 and 329 will be replaced by Kines 337 and 338.

<sup>2</sup> Basic Life Support for Healthcare Providers certification or CPR/AED for Professional Rescuers certification may substitute for the CPR/AED portion of Kines 116. First Aid certification may substitute for the first aid portion of Kines 116. Students must present both certifications (CPR/AED and first aid) to exempt from Kines 116.

## PHYSICAL EDUCATION COURSES

Code	Title	Credits
DANCE 2	Ballroom Dance I	1
DANCE 205	Dance	1
KINES 104	Aquatics	1
KINES 121	Foundations of Physical Education	2
KINES 315	Assessment and Research in Physical Activity Pedagogy	3
KINES 316	Adapted Physical Activity	3
KINES 325	Group Development and Behavior Management	3
KINES 327	Current Topics in Outdoor Pursuits	1

KINES 353	Health and Physical Education in a Multicultural Society	2
KINES 355	Socio-Cultural Aspects of Physical Activity	3
KINES 360	Lifespan Motor Development	3
KINES 370	Planning, Teaching and Assessment in Physical Education	3
KINES 371	Methods of Teaching PK-12 Dance and Gymnastics	3
KINES 372	Methods of Teaching PK-12 Educational Games and Fitness	3
KINES 373	Methods of Teaching Secondary Sport Concepts and Skills	3
KINES 375	Practicum in Physical Education	3
KINES 412	Organization and Administration of Physical Education	2
KINES/CURRIC 478	Elementary School Physical Education Student Teaching	6
KINES/CURRIC 479	Middle School or High School Physical Education Student Teaching	6

## PROFESSIONAL EDUCATION COURSES

Code	Title	Credits
<b>Learning (Minimum of 3 credits)</b>		
ED PSYCH 301	How People Learn	3
<b>Foundations of the Profession: (Minimum of 3 credits)</b>		
ED POL 300 or ED POL/ HISTORY 412	School and Society History of American Education	3
<b>Literacy, Including Reading:</b>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts (also meets Communication Part B requirement)	3

## ADDITIONAL CERTIFICATION OPTIONS

Physical Education students are encouraged to increase their content knowledge and teaching capabilities through additional training. Although not required, teaching certifications are available in health education and adapted physical education. Students may pursue more than one additional certification.

### HEALTH EDUCATION MINOR, 30 CREDITS.

Contact Bonnie Klassy, [bjklassy@wisc.edu](mailto:bjklassy@wisc.edu), ([bjklassy@wisc.edu](mailto:bjklassy@wisc.edu)) 608-558-0227, for additional information about the Health Education minor (p. 1465).

### ADAPTED PHYSICAL EDUCATION, 15 CREDITS.

Contact Tim Gattenby, [gattenby@education.wisc.edu](mailto:gattenby@education.wisc.edu), 608-262-9562, for additional information regarding Adapted Physical Education (<http://kinesiology.education.wisc.edu/kinesiology/academics/undergraduate-programs/adapted-physical-activity>) at UW-Madison.

Certification in Adapted Physical Education requires:

Code	Title	Credits
<b>Required Courses</b>		
KINES 316	Adapted Physical Activity (required of all PE majors)	3
KINES 300	Practicum in Kinesiology (Adapted Sport and Fitness:Adults)	1-3
KINES 364	Assessment and Programming in Adapted Physical Education	3
KINES 365	Practicum: Adapted Physical Education (Children)	2
RP & SE 300	Individuals with Disabilities	3
<b>Select one elective. Requires advisor approval.</b>		
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3
RP & SE 450	Collaborating with Families of Individuals with Disabilities	3
RP & SE 470	Individuals with Learning and Behavioral Disabilities	3
RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	3
RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
CS&D 110	Introduction to Communicative Disorders	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 424	Sign Language I	2
PSYCH 405	Abnormal Psychology <sup>1</sup>	3-4
PSYCH 512	Behavior Pathology-Psychoses	3

<sup>1</sup> Effective fall 2017, the course number of Abnormal Psychology changed from Psych 509 to 405.

## CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW–Madison campus course work. Consult the School of Education's Academic Policies and Procedures (p. ) for additional information about the continuation requirement.

## GPA AND OTHER GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- A minimum of 120 credits.
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework

(numbered 300–699) in residence on the UW–Madison campus.

- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum are considered part of the 30 credits.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p. 1479).

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

11. Standard 11: Uses Technologies. Teachers appropriately incorporate new and proven technologies into instructional practice. They understand the major social, cultural, and economic issues surrounding their implementation.
12. Standard 12: Accommodates for All Students. Teachers design educational environments and use instructional practices that accommodate students' achievements, strengths, challenges, interests, and learning styles.
13. Standard 13: Is a Reflective Practitioner. Teachers are reflective practitioners who evaluate the effects of their assumptions, choices, and actions on others (students, parents, and other professionals in the learning community) and who actively seek out opportunities to grow professionally. They examine assumptions enmeshed in ways of thinking and in familial, institutional, and cultural lore, and practices.
14. Standard 14: Relates Well with Students, Families, and Communities. Teachers relate to students, families, and community members in a fair, respectful, and sensitive manner. They show an appreciation for the cultural diversity of our society.
15. Standard 15: Understands Legal Rights and Responsibilities. Teachers understand the legal rights and responsibilities of professional educators and the law as it applies to their specific domains of teaching.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Standard 1: Incorporates Understanding of Human Learning and Development. Teachers design learning environments and pedagogical practices for students that are grounded in concepts and interpretive frameworks provided by disciplines that study human development and learning.
2. Standard 2: Understands Social Context of Schooling. Teachers understand how local, state, national, and global social and political contexts differentially affect schooling and its outcomes for students.
3. Standard 3: Demonstrates Sophisticated Curricular Knowledge. Teachers understand the central concepts, assumptions, tools of inquiry, ways of reasoning, uncertainties, and controversies of exercise science and physical educations.
4. Standard 4: Demonstrates Pedagogical Knowledge in Specific Domains. Teachers are knowledgeable about the problems, challenges, and opportunities that commonly arise as students develop understanding or competence in physical education.
5. Standard 5: Explains and Justifies Educational Choices. Teachers can articulate and defend their curricular and instructional choices with sound ethical and pedagogical justifications.
6. Standard 6: Connects School and Community. Teachers use the knowledge and abilities necessary for collaboration with individuals, groups, and agencies within the school and community. They base instruction of students on an understanding of curricular goals, subject matter, and the community, and help the students make connections between community-based knowledge and school knowledge.
7. Standard 7: Understands and Adapts to Multiple Forms of Communication. Teachers understand and adapt to students' multiple forms of expressing and receiving experiences, ideas, and feelings.
8. Standard 8: Employs Varied Assessment Processes. Teachers understand and thoughtfully use formal and informal evaluation strategies to assess students' achievements, strengths, challenges, and learning styles for continuous development.
9. Standard 9: Manages Learning Environment. Teachers establish and maintain an environment that engages students in learning while providing for their physical and socio-emotional well-being.
10. Standard 10: Employs Varied Instructional Strategies. Teachers understand and use a variety of instructional strategies to enhance students' learning.

## ADVISING AND CAREERS

### ADVISING

#### PHYSICAL EDUCATION ADVISING

Prospective off-campus and on-campus physical education students will meet with Dan Timm in the kinesiology department. Students considering physical education should schedule an appointment with Dr. Timm as soon as possible; call 608-262-0259. Pre-admission advising is conducted by the kinesiology department and staff at Education Academic Services (EAS), see below.

Students with either a pre-certification (PED) or certification (BSPE) classification are required to meet with their department advisor at least once per semester. Mandatory advising meetings are conducted every semester, just before enrollment begins for the following semester.

#### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

#### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising)  
<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions

around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755  
<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do

- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<http://www.education.wisc.edu/kinesiology>)

## CERTIFICATION/LICENSURE

## ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in

course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Disclosure Statement and Criminal Background Investigation

#### Disclosure Statement

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

#### Criminal Background Investigation (CBI)

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

### Environmental Education

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVR ST 343	Environmental Economics	3-4
GEOG/ENVR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVR ST 121	Atmospheric Environment and Society	2
GEOG/ENVR ST 127	Physical Systems of the Environment	5
GEOG/ENVR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVR ST 339	Environmental Conservation	4
LAND ARC/ ENVR ST 361	Wetlands Ecology	3
MED HIST/ ENVR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3

### Student Testing and Assessment

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

#### Basic Skills Requirement

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test



requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

## Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other

possible course requirements in their specific area of study.

- Passing a content examination in the certification area(s).
- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### **Student Teaching Application Procedures**

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### **Alternative Placement Options for Student Teaching**

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### **Special Placements**

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### **Withdrawing From/Failing Field Experience Assignments**

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate

Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## **Minority Group Relations and Conflict Resolution**

### **Minority Group Relations**

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Conflict Resolution Requirement**

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.
- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps

to demonstrate students' achievement of these knowledge and performance standards.

- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence level*. The Special Education/Elementary Education dual major option

certifies students only at the *Middle Childhood through Early Adolescence* level.

- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## REHABILITATION PSYCHOLOGY AND SPECIAL EDUCATION

The Department of Rehabilitation Psychology and Special Education prepares personnel, through professional education, research, and service, for the education and/or rehabilitation of people of all ages with disabilities. Instruction and research emphasize educational and behavioral assessment and treatment of children, as well as counseling, assessment, case management, advocacy, and job placement with adults to facilitate improved personal, social, and vocational adjustment.

Targeted populations encompassed by the program include adults and children with physical disabilities, emotional disabilities, intellectual disabilities, learning disabilities, traumatic brain injuries, alcohol and other drug abuse, and persons involved with the criminal justice system.

Special education and rehabilitation psychology are intrinsically related, both in basic objectives and in professional education and research. The instructional program includes core study areas, practica, and research experiences relevant to the development of various professional roles.

Three undergraduate programs are available to undergraduate students:

- A cross-categorical teacher certification program in Special Education. (p. 1490)
- A pre-professional undergraduate program in Rehabilitation Psychology (p. 1484).
- A Special Education/Elementary Education dual major (p. 1305) is also being offered jointly with the Department of Curriculum and Instruction.

## DEGREES/MAJORS/CERTIFICATES

- Rehabilitation Psychology, B.S. (p. 1484)
- Special Education, BSE (p. 1490)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website. (<http://rpse.education.wisc.edu>)

## REHABILITATION PSYCHOLOGY, B.S.

Rehabilitation Psychology is the academic home to many students interested in the health or helping professions. Rehab Psych students enjoy working with people with disabilities. They gravitate toward psychology and other coursework in the social sciences.

In this major, students learn how to promote and support the independence and full inclusion of people with disabilities in employment and the community. Various types of disabilities examined in the major include physical, mental, intellectual, emotional, and developmental disabilities. Graduates are prepared to provide quality entry-level general services in a variety of community settings, including advocacy, behavioral support, independent living, and supported employment.

Many students go on to complete graduate programs in rehabilitation counseling, mental health counseling, occupational therapy, physical therapy, nursing, special education, social work, and other human services and health professions.

The rehabilitation psychology program emphasizes course work in the following areas:

- Psychology and educational psychology
- Sociology and social work
- Rehabilitation services and community supports for individuals with disabilities
- Biological, psycho-social, and vocational aspects of working with individuals with disabilities
- Positive psychology and health promotion for individuals with disabilities
- Working collaboratively with community agencies advocating and supporting individuals with disabilities

The culminating experience in the degree program is the community-based internship. Students complete six credits of internship working with agencies that serve individuals with disabilities. Graduates receive a bachelor of science degree with a major in rehabilitation psychology.

Visit the departmental website for more information about the undergraduate program (<http://rpse.education.wisc.edu/rpse/programs/undergraduate-programs/rehabilitation-psychology-undergraduate-program>), the field of rehabilitation psychology (<https://rpse.education.wisc.edu/rpse/programs/graduate-degree-programs/rehabilitation-psychology-graduate-program/the-profession-of-rehabilitation-counseling>), and what current students have to say (<http://youtu.be/Zu0u1MOjvB4?list=PL9F9013685146C73A>) about the program.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the rehabilitation psychology undergraduate program twice a year, for the fall and spring semesters. Students usually apply for admission to the rehabilitation psychology program during their sophomore year. Selection to the program will be made at the end of the fall and spring semesters, after the previous semester grades are reported.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and transfer students interested in rehabilitation psychology are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the School, but has not applied and been admitted to the professional program. Students interested in rehabilitation psychology receive the "pre-professional" classification of PSR.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the School of Education by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW-Madison coursework, is required to transfer into the school. This GPA may be modified

by the Last 60 Credits rule (detailed below (p. 1486)). It is not necessary to be a "pre-professional" student before applying to a professional program. Admission as a "pre-professional" student does not guarantee admission to the professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the University to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an School of Education advisor in advance of their application. Consultations with advisors are available in person and via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## APPLICATION AND ADMISSION

### ELIGIBILITY FOR ADMISSION TO THE PROFESSIONAL PROGRAM

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be eligible for admission, applicants must:

- complete at least 54 credits of transferable college-level coursework by the end of the semester the application is filed.
- complete RP & SE 300 Individuals with Disabilities by the end of the program-application semester.

- earn a cumulative grade point average of 2.5 (on a 4.0 scale) based on all transferable college-level coursework attempted.<sup>1</sup>
- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to the program. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## APPLICATION REVIEW AND SELECTION

Selection to the program will be made at the end of the fall and spring semesters, after the previous semester grades are reported. The number of applicants admitted each semester will be determined by the faculty according to available resources. While all eligible applicants have been admitted to the professional program in recent years, this may not always be the case; see stipulations below. Admission is not final until all acceptance related materials are received by EAS and criminal background investigation results are reviewed.

If the applicant pool exceeds the resources available for any admission period, admission will become limited and competitive. Selection will be based upon cumulative grade point average. Remaining students will be placed on a waiting list based on ranked order of cumulative grade point average.

## CRIMINAL BACKGROUND INVESTIGATION

Criminal background investigations will be conducted for all students admitted to this program. Detailed instructions on how to complete the required criminal background check will be included in offers of admission. This is not completed until after an applicant has been offered admission.

Results of criminal background checks may be shared with other agencies when required by state code, or with a cooperating school or other agency in which the student has been assigned to complete field

experiences. Criminal background checks may also be run on students by school districts. Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. Field site administrators have the right to determine the appropriateness of a student placement.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The bachelor of science (B.S.) degree program in rehabilitation has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Related coursework* comes from departments related to Rehabilitation Psychology—Psychology, Educational Psychology, Sociology, Social Work, and Educational Policy Studies.
- *Rehabilitation Psychology* coursework offers an in-depth study of rehabilitation psychology, including multiple opportunities for supervised field work. In addition, at least 6 credits of electives in rehabilitation psychology are required, giving students some flexibility to tailor the program to their specific interests.

- *Elective* coursework is taken to meet the minimum of 120 credits required for the degree.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major.

Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## RELATED COURSE REQUIREMENTS PSYCHOLOGY/EDUCATIONAL PSYCHOLOGY

Complete 18 credits selected from Educational Psychology ([http://guide.wisc.edu/courses/ed\\_psych](http://guide.wisc.edu/courses/ed_psych)) and/or Psychology (<http://guide.wisc.edu/courses/psych>) to include PSYCH 405 Abnormal Psychology

Note: Effective fall 2017, the course number of Abnormal Psychology changed from Psych 509 to PSYCH 405.

## SOCIOLOGY/SOCIAL WORK

Complete 9 credits selected from Sociology (<http://guide.wisc.edu/courses/soc>) and/or Social Work ([http://guide.wisc.edu/courses/soc\\_work](http://guide.wisc.edu/courses/soc_work)). Recommended areas include social disorganization, deviant behavior, alcohol and other drug abuse, community development, and issues in social welfare.

## EDUCATIONAL POLICY STUDIES

Complete a 3-credit course from Educational Policy Studies ([http://guide.wisc.edu/courses/ed\\_pol](http://guide.wisc.edu/courses/ed_pol)).

Code	Title	Credits
<b>Recommended Courses</b>		
ED POL 300	School and Society	3
ED POL 460	Immigration, Education, and Equity	3
ED POL 500	Topics on Social Issues and Education	3
ED POL/ ANTHRO 570	Anthropology and Education	3

## REHABILITATION PSYCHOLOGY COURSE REQUIREMENTS

These requirements are first effective for summer 2017 program admission.

### DIDACTIC CORE

Complete the following 18 credits:

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3
RP & SE 500	Rehabilitation-Counseling Psychology: Foundations	3
RP & SE 501	Rehabilitation-Counseling Psychology: Applications	3
RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	3
COUN PSY 650	Theory and Practice in Interviewing	3
RP & SE 660	Special Topics (Health Promotion for Disability and Chronic Illness)	3

## SUPERVISED FIELD EXPERIENCE

Students are required to take 6 credits of RP & SE 630 Internship in Rehabilitation or Special Education; once in conjunction with RP & SE 501. The remaining 3 credits may be completed in another semester.

## REHABILITATION PSYCHOLOGY AND SPECIAL EDUCATION ELECTIVES

Complete 6 credits from the following:

Code	Title	Credits
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3
RP & SE 401	Augmentative and Alternative Communication and Assistive Technology for Students with Disabilities	1
RP & SE 402	Methods in Teaching Functional Skills	1
RP & SE 405	Current Topics in Special Education	1
RP & SE 660	Special Topics (Positive Psychology, Substance Abuse topics only)	3

The course options listed below can also be applied toward this requirement, but only if taken **summer 2017 or earlier**.

Any courses from the departments of Rehabilitation Psychology and Special Education ([http://guide.wisc.edu/courses/rp\\_se](http://guide.wisc.edu/courses/rp_se)), Counseling Psychology ([http://guide.wisc.edu/courses/coun\\_psy](http://guide.wisc.edu/courses/coun_psy)), Psychology (<http://guide.wisc.edu/courses/psych>), Educational Psychology ([http://guide.wisc.edu/courses/ed\\_psy](http://guide.wisc.edu/courses/ed_psy)), Sociology (<http://guide.wisc.edu/courses/soc>), Social Work ([http://guide.wisc.edu/courses/soc\\_work](http://guide.wisc.edu/courses/soc_work)), and the following:

Code	Title	Credits
KINES/CURRIC 501	Health Information for Teachers	3
KINES/CURRIC/ELPA 541	Organization and Administration of School Health Programs	3
KINES/CURRIC 561	Teacher Education in Human Sexuality	3
KINES/CURRIC 567	Issues, Materials and Methods in Health Education	3
KINES 508	Workshop in Kinesiology <sup>1</sup>	1-3
GEN&WS 371	Disability and Gender in Film	3

<sup>1</sup> The only topic accepted to meet the requirement is Adaptation of Physical Education Programs.

## ELECTIVE COURSEWORK

Complete additional coursework to reach the minimum of 120 credits.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.50 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.50 cumulative grade point average in all major coursework. This GPA includes all coursework from the RP & SE department and Coun Psy 650.
- Major Residency. The rehabilitation psychology program requires that students complete 15 credits of the Didactic

Core and Supervised Field Experience coursework while in residence on the UW–Madison campus.

- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits. A minimum of 120 degree credits are required for graduation.

## DEGREE AUDIT (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.



## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Students will be able to analyze complex social issues using skills gained through the study of communication, quantitative reasoning, humanities, social sciences, natural sciences, ethnic studies, history and global issues.
2. Students will understand the concept of disability in American society and demonstrate basic knowledge of issues that affect education, rehabilitation, and healthcare services for individuals with chronic illnesses and disabilities.
3. Students will identify basic theories in the field of psychology and recognize the importance of theoretical foundations in psychology for the study of rehabilitation, disability, and health.
4. Students will successfully engage with the healthcare and rehabilitation services professional community to develop knowledge of the health and human services delivery systems, and pre-professional skills in communication, teamwork, problem solving, and ethical issues.
5. Students will be prepared for graduate study in a variety of health and human service fields related to disability and rehabilitation, or for entry-level positions in a variety of disability and related human services agencies.

## ADVISING AND CAREERS

### REHABILITATION PSYCHOLOGY ADVISING

Students not yet admitted to rehabilitation psychology meet with their assigned advisor in Education Academic Services (EAS) and/or the Office of Undergraduate Recruitment and Retention (OURR), see below. Students are assigned an additional departmental advisor when admitted to the professional component of their degree program.. For general information about the program and degree requirements, contact Virginia Waddick, RP & SE Student Services Coordinator, [vwaddick@education.wisc.edu](mailto:vwaddick@education.wisc.edu), 608-263-4608.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school

regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials

- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## ADDITIONAL RESOURCES

Students interested in occupational and physical therapy may also want to consult the following resources about graduate programs:

- Center for Pre-Health Advising (<https://prehealth.wisc.edu>)
- Occupational Therapy at UW–Madison: Advising Video and Program Information (<https://www.youtube.com/watch?v=TldmMjPKWRI&feature=youtu.be>)
- Physical Therapy at UW–Madison (<http://www.med.wisc.edu/physical-therapy-program/main/48437>)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website. (<http://rpse.education.wisc.edu>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## SPECIAL EDUCATION, BSE

The special education program is the academic home to many students who enjoy working with children, and especially children with disabilities. Special education graduates enter a high-need field with an almost 100% job placement rate after graduation. Employment opportunities are available all across the country.

The special education teacher certification program prepares educators to serve as resources and advocates for persons with disabilities and their families. This includes being a leader, collaborating with others, and working creatively within and outside the schools to create inclusive educational experiences to improve the quality of life for individuals with disabilities and their families.

The special education program prepares students to work effectively across disability categories including intellectual and developmental disabilities, learning disabilities, and emotional/behavioral disabilities. The program emphasizes course work and experiences in elementary, middle, and high schools with students who have a wide range of abilities, including students with severe disabilities.

Graduates receive a Bachelor of Science degree with a major in Special Education and are eligible to apply for a Wisconsin cross-categorical Special Education license at the Middle Childhood through Early Adolescence level (ages 6-12/13), and also at the Early Adolescence through Adolescence level (ages 10-21).

The Special Education program emphasizes coursework in areas including:

- Assessing learning needs in all core academic areas
- Creating individualized education plans
- Implementing instructional strategies for helping students with a variety of abilities succeed
- Using assistive technology
- Understanding behavior and intervention strategies for social and academic success
- Diversity issues in special education
- Working collaboratively with teachers and other school professionals to create successful inclusive learning environments

Students learn about these topics through a four-semester sequence of coursework, practicum experiences, and student teaching experiences in elementary, middle, and high schools.

Visit the departmental website for more information about the undergraduate program options (<http://rpse.education.wisc.edu/rpse/programs/undergraduate-special-education-program>) in Special Education.

## ELEMENTARY EDUCATION AND SPECIAL EDUCATION DUAL MAJOR CERTIFICATION PROGRAM

Students interested in Special Education may want to consider another program option that certifies students in both Elementary Education and Special Education. The job placement rate for students graduating from this program is almost 100%. Employment opportunities are available all across the country.

The Elementary-Special Education teacher certification program prepares educators who foster high academic achievement in all children - particularly learners from diverse racial, cultural, linguistic, socioeconomic backgrounds and abilities. The program helps students become leaders who collaborate and work creatively within and outside schools to foster inclusive educational experiences for all pupils, including those with disabilities. Program graduates understand the important role that families play in supporting students' development and achievement.

This program emphasizes collaboration, with training in both Elementary and Special Education methodologies. It focuses on inclusion and gaining a strong background in working with students across disability categories, including learning disabilities, emotional/behavioral disabilities, and other high incidence disabilities.

Graduates receive a Bachelor of Science degree and are eligible to apply for both a Wisconsin Elementary Education license at the Middle Childhood through Early Adolescence level (ages 6-12/13), and a cross-categorical Special Education license at the Middle Childhood through Early Adolescence level.

The Elementary Education-Special Education program emphasizes course work in areas including:

- Recognizing how our backgrounds and experiences shape thinking and actions; reflecting and adapting to best serve students
- Assessing learning needs in all core academic areas
- Creating individualized education plans
- Understanding behavior and intervention strategies for social and academic success
- Diversity and social justice in education
- Working collaboratively with teachers and other school professionals to create successful inclusive learning environments

Students learn about these topics through a four-semester sequence of course work, practicum experiences and student teaching experiences in elementary and middle schools. The sequence begins in the fall after program admission.

Information about requirements and application procedures for the Elementary-Special Education dual teacher certification program is available in the Elementary Education (p. 1305) section of the Guide. The RP & SE departmental website can also provide for more information about the two undergraduate program options (<http://rpse.education.wisc.edu/rpse/programs/undergraduate-special-education-program>) in Special Education.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Undergraduate students generally apply to the professional part of the special education degree program in their sophomore year. Selection is made during the spring semester. Currently, students are admitted to the program once a year, effective for the summer following selection. Once admitted, students typically spend four semesters completing their remaining coursework.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and transfer students interested in special education are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in special education receive the "pre-professional" classification of PSR.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>). A minimum GPA of 2.5, based on UW-Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p.     )). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in Education Academic Services (EAS), 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the University to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with

advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

## APPLICATION AND ADMISSION

Certification to teach special education requires that a student be admitted into the professional part of the degree program. The School of Education admits students into the special education program one a year, effective for summer following selection. Resources limit the number of students who can be served by the UW–Madison Special Education Teacher Education Program. In recent years the program has been able to accommodate all qualified applicants; however, if the number of qualified applicants exceeds program resources, admission will become limited and competitive. If this happens, meeting or surpassing the minimum eligibility criteria will not guarantee admission.

## PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be eligible for admission to the professional program, applicants must:

- complete at least 40 transferable college-level credits by the end of the fall semester before application.
- successfully complete RP & SE 300 Individuals with Disabilities (3 cr) by the end of the summer semester of the application year.
- earn a minimum 2.5 grade point average (GPA) on a 4.0 scale on all transferable college-level coursework attempted.<sup>1</sup>
- complete the Basic Skills Requirement. All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. For more information see the document Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>).
- submit completed program application form(s), transcripts, and all other related application materials by the application

deadline specified on the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility for program consideration. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## PROGRAM SELECTION CRITERIA

The special education faculty will review all completed applications that meet eligibility criteria. When reviewing an application, special education faculty want to learn as much about the applicant as possible and will make every effort to take into account the whole person. Applicants are encouraged to provide, in writing, whatever they would want to share in a face-to-face interview.

The selection committee members will consider several factors when selecting students for the program. Grade point average (GPA) and basic skills test scores will be a part of the evaluation process. Although these numerical scores are considered important indicators of success, they are not the only basis on which applicants will be selected for admission. Trends in the applicant's grades, difficulty of course load, and outside work load will be considered (see factors 1, 2, and 3 below). The basic skills test was designed primarily to assess mastery of basic skills in reading, writing and mathematics. High or low basic skills test scores may be considered in marginal situations.

### In addition to GPA and basic skills test scores, faculty will consider the following factors:

- **College grading and course selection pattern.** Transcripts will be examined individually. Account will be taken whether an applicant has clearly followed an unusually easy or difficult pattern of courses or if the GPA reflects a poor grade in an exceptionally difficult subject area.
- **Trends of college grades.** An applicant who started very poorly or showed a decline in their early phases of college, but performed strongly in later college years, may be judged more favorably than another with the same GPA but level or declining record.

- **Diversity of experience or background.** Work/life experience, college activity, political activity, and other experiences or background that adds a diverse perspective to the special education student body may work in the applicant's favor. Volunteer or paid work with people with disabilities will be taken into account in the selection process. Volunteer or paid work with people from a background different than the applicant's may also be taken into account in the selection process.
- **Writing sample (Statement of Purpose).** Application materials must include an essay in which the applicant gives reasons for becoming a special education teacher. Writing is so important in the professional life of teachers and in the teacher education program that the quality of the applicant's writing will be taken into account in making admissions decisions.
- **Letters of recommendation.** Recommendation letters will play an important role in helping the selection committee judge the applicant's prospects for academic success in the program. Careful, thoughtful letters from mentors, teachers, or employers will provide information about the applicant's intellect, imagination, or prospects for becoming a successful teacher. Working with people with disabilities will be taken into account in the selection process. Working with people from a background different than the applicant's may also be taken into account in the selection process.
- **Other factors.** The program's quest for diversity leads the selection committee to take into account fully qualified applicants from under-represented groups. Race, ethnicity, cultural, geographic background, and economic disadvantage are among the factors that will be considered, taking into account the needs of the schools. A full-time or extra heavy part-time work load will be considered a factor in close cases.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## PROGRAM STRUCTURE

The Special Education program has four primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn.
- *Core Requirements* offer an in-depth study of Special Education, including a four-semester *professional sequence* of teaching methods coursework and field experience in schools. This sequence is designed so that students can complete the program in four years.
- *Elective* coursework is taken to reach the required minimum of 120 credits.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science. Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

## PROFESSIONAL EDUCATION REQUIREMENTS

### Individuals with Disabilities

This course is a prerequisite for admission to the Special Education program. It must be completed by the end of the summer of the application year.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

### Development (Minimum of 3 credits)

Code	Title	Credits
Select one of the following options:		
Option 1		3
ED PSYCH 331	Human Development From Childhood Through Adolescence (Recommended for all certification levels)	
Option 2		5-6
ED PSYCH 320	Human Development in Infancy and Childhood <sup>1</sup>	
or PSYCH 460	Developmental Psychology	
ED PSYCH 321	Human Development in Adolescence	

<sup>1</sup> Effective fall 2017, the course number of Child Psychology changed from Psych 560 to 460.

### Learning (Minimum of 3 credits)

Code	Title	Credits
ED PSYCH 301	How People Learn	3

### Foundations of the Profession (Minimum of 3 credits)

Code	Title	Credits
Select one of the following:		
ED POL 300	School and Society	3
ED POL/ HISTORY 412	History of American Education	

## CORE REQUIREMENTS (INCLUDES PROFESSIONAL SEQUENCE)

RP & SE 300 Individuals with Disabilities is a prerequisite for admission to the Special Education program. This course must be completed by the end of the summer of the application year and is calculated into the major gpa required for graduation.

### SPECIAL EDUCATION PROFESSIONAL SEQUENCE

Students complete a four-semester sequence of professional courses after admission to the program. The professional methods courses and clinical (field) experiences must be followed sequentially and taken in consecutive semesters. Class schedules for the professional sequence courses are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities (may be taken prior to admission to the Special Education program)	3
RP & SE 466	Diversity in Special Education (may be taken prior to admission to the Special Education program)	3
RP & SE/CURRIC 506	Strategies for Inclusive Schooling	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	4
RP & SE 402	Methods in Teaching Functional Skills (recommended this semester)	1
<b>Semester 2</b>		
RP & SE 465	Language and Reading Instruction for Students with Disabilities (Meets Communication B requirement)	4
RP & SE/CURRIC 365	Teaching Mathematics in Inclusive Settings	4
CURRIC 374	General Educ Practicum & Instructional Planning for Diverse Learners	2-5
RP & SE 473	Management: Students with Learning and Behavioral Disabilities	3

RP & SE 401	Augmentative and Alternative Communication and Assistive Technology for Students with Disabilities (recommended this semester)	1
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**Semester 3**

RP & SE 477	Special Education Student Teaching: Middle Childhood - Early Adolescence (Full-day student teaching following the school district calendar)	6-12
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RP & SE 467	Elementary Student Teaching Seminar	2
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RP & SE 403	Promoting Adolescent Literacy for Students with Disabilities (recommended this semester)	1
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**Semester 4**

RP & SE 478	Special Education Student Teaching: Early Adolescence - Adolescence (Full-day student teaching following the school district calendar))	10
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RP & SE 472	Methods in Transition and Vocational Education	3
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RP & SE 468	Secondary Student Teaching Seminar	2
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RP & SE 404	Methods in Teaching Science & Social Studies for Students with Disabilities (recommended this semester)	1
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**RP&SE MODULES**

Students are required to complete all four of the following one-credit modules after admission to the program. Most students complete one or two modules during each semester of the professional program and a suggested sequence is listed above. Consult with the program advisor for information on when each of the modules will be offered. At least one will be offered each semester.

Code	Title	Credits
RP & SE 401	Augmentative and Alternative Communication and Assistive Technology for Students with Disabilities	1
RP & SE 402	Methods in Teaching Functional Skills	1
RP & SE 403	Promoting Adolescent Literacy for Students with Disabilities	1
RP & SE 404	Methods in Teaching Science & Social Studies for Students with Disabilities	1

**ELECTIVE COURSEWORK**

Complete additional coursework to reach the minimum of 120 credits.

**GPA AND OTHER GRADUATION REQUIREMENTS****GRADUATION REQUIREMENTS**

Students must complete all requirements and also obtain the endorsement of the program faculty advisor(s) to receive certification through UW–Madison. The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Requirements below are based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1227).
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- Minimum 120 credits (degree candidates only). Most students will need more than the minimum to complete all requirements.
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300–699) in residence on the UW–Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum are considered part of the 30 credits.

**DEGREE AUDIT (DARS)**

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

**ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE**

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and

certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available on the department's website (<http://rpse.education.wisc.edu/rpse/programs/undergraduate-programs/special-education>) and under Certification/Licensure. (p. 1497)

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

- **Professionalism:** The teacher candidate will adhere to professional ethical standards and conduct her or himself in a courteous and professional manner.
- **Collaboration and Communication:** The teacher candidate will collaborate and effectively communicate with students their families, other educators, related service providers and members of the community to address the needs of students with disabilities.
- **Assessment:** The teacher candidate will collect information on student backgrounds, learning characteristics and achievement that can be used to determine students' present level of performance and guide instruction.
- **Special Education Evaluation and Individualized Educational Planning:** To the maximum possible the teacher candidate will participate in the Educational Evaluation and Individualized Educational Planning process.
- **Instructional Planning:** The teacher candidate will plan instruction that meets the needs of students, is consistent with State and local standards and provides access to the general education curriculum.

- **Instructional Presentations:** The teacher candidate will present lessons and units of instruction that gain and maintain student attention and are consistent with students' interests and IEP goals.
- **Classroom Management:** The teacher candidate will create and maintain a safe, positive and supportive learning environment that is conducive to learning and the mental health of the students.

## ADVISING AND CAREERS

### SPECIAL EDUCATION PROGRAM ADVISING

Students not yet admitted to special education meet with their assigned advisor in Education Academic Services (EAS) and/or the Office of Undergraduate Recruitment and Retention (OURR), see below. Students are assigned an additional departmental advisor when admitted to the professional component of their degree program. For general information about the program and degree requirements, contact Virginia Waddick, RP & SE Student Services Coordinator, [vwaddick@education.wisc.edu](mailto:vwaddick@education.wisc.edu), 608-263-4608.

### GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651  
[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students



with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

## OURL: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURL staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURL staff perform outreach, recruitment, and advising on behalf of the School. OURL staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURL works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURL staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

## SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.

- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## ADDITIONAL RESOURCES

Students interested in special education may also want to consult the following resources:

- Read about the work of Special Educators: *What is Special Education?*
- Read about the *relationship between Special Education and regular education programs*.
- *Watch a Video* describing the work of Special Educators.
- Read about why current students and alumni chose this major at UW–Madison: *Teacher Tuesday*
- *Learn About Related Careers*

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website. (<http://rpse.education.wisc.edu>)

## CERTIFICATION/LICENSURE

## ADDITIONAL CERTIFICATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. These requirements include those required by UW–Madison, the Department of Public Instruction, and those mandated by state statutes. While most of these requirements are embedded in course content, some (e.g., the Basic Skills Requirement, the Wisconsin Foundations of Reading Test) are not related to course enrollment.

Students pursuing certification must complete the following requirements. See the school's website (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure>) for additional information/requirements.

Certification requirements should be monitored carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

**Disclosure Statement and Criminal Background Investigation**  
**Disclosure Statement**

Applicants to School of Education programs that involve a practicum, internship, or other field placement must complete a disclosure statement indicating (1) whether they have been admitted to, then withdrawn from, asked to withdraw from, or been dropped from a student teaching, clinical experience, or other intern/practicum program, and (2) if they have ever been placed on probation or disciplined by any college or university for academic dishonesty.

**Criminal Background Investigation (CBI)**

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work.

Students should be aware that criminal background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the academic dean in Education Academic Services.

**Environmental Education**

This licensing requirement is mandatory for all Elementary Education, Secondary Science, Secondary Social Studies, and Agri-Science Education certification students. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st](http://guide.wisc.edu/courses/envir_st)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

Code	Title	Credits
ATM OCN/ENVIR ST/ GEOG 121	Atmospheric Environment and Society	2
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3

BOTANY 100	Survey of Botany	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
GEOG/ENVIR ST 120	Introduction to the Earth System	3
GEOG/ATM OCN/ ENVIR ST 121	Atmospheric Environment and Society	2
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ENVIR ST 139	Living in the Global Environment: An Introduction to People-Environment Geography	3-4
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
PHYSICS 115	Energy	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**Student Testing and Assessment**

Students in teacher education programs are required to complete a number of tests and a significant performance assessment prior to certification and eventual licensure. Detailed information related to these requirements, along with fee and registration information can be found on the School of Education website under Academic Tests for Prospective Teachers (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/student-testing-and-assessment>). A brief description of these tests and assessments is provided below.

**Basic Skills Requirement**

All prospective teacher education students must submit test scores to the School of Education to be eligible for professional program admission. Students may use their ACT, SAT, or GRE scores, or they may take the Praxis Core Academic Skills for Educators Test (formerly the Praxis I/PPST). These tests meet Wisconsin's basic skills test requirement for prospective teachers. All sections of the chosen basic skills test must be taken by program applicants to be eligible for program admission.

### Content Test

Students completing professional education programs must take and pass an approved examination in their content area prior to their final student teaching semester. Most students complete the appropriate Praxis II: Subject Assessments/ Specialty Area Tests through the Educational Testing Service (ETS). World Language Education students must meet an ACTFL Oral Proficiency Interview requirement and must take and pass the ACTFL Writing Proficiency Test (WPT). No candidates may be waived from taking the required test(s) for their license area.

### Wisconsin Foundations of Reading Test

As of January 31, 2014, individuals seeking an initial Wisconsin license to teach in kindergarten through grade 5 or in special education, an initial Wisconsin license as a reading teacher, or an initial Wisconsin license as a reading specialist, must take and pass the Wisconsin Foundations Reading Foundations Test. Undergraduate programs impacted by this requirement are Elementary Education and Special Education.

This test is for Wisconsin licensing purposes **only**. Students who choose not to pursue Wisconsin educator licensing need not take and pass this test. This test is in addition to all other required tests and assessments for certification and licensure. For instance, students must still take and pass the Praxis II content exam to be eligible to student teach.

### Teacher Performance Assessment (edTPA)

The edTPA is a subject area-specific, performance-based assessment for pre-service teacher candidates, which is centered on student learning. Evidence of candidate teaching proficiency in the areas of planning, engagement and instruction, and assessment is drawn from a subject-specific learning segment, 3–5 lessons from a unit of instruction. Assessment artifacts include video clips of instruction, lesson plans, student work samples, analysis of student learning, and reflective commentaries. These artifacts will be taken together and scored by trained evaluators using the standardized set of edTPA rubrics. *After August 31, 2015, initial license candidates (i.e., students completing certification programs) must complete the edTPA as part of their student teaching and after August 31, 2016, initial license candidates will be required to pass the edTPA before they can be recommended for licensure.*

### Field Experiences

School-based field experiences are a critical part of students' professional preparation for teaching. In fact, the student teaching experience is frequently cited in teacher education literature as the single component of a teacher education program with the highest impact on future teaching behaviors of teacher candidates. Under Wisconsin State regulations, students seeking teaching certification from UW–Madison are required to complete at least one pre-student teaching practicum and at least one full semester of student teaching. Most programs at UW–Madison require students to complete additional field experiences.

### Pre-Student Teaching Practicum

The pre-student teaching practicum gives students firsthand knowledge of the classroom environment and the teacher's role. For many students, the practicum is the initial encounter with the real world of teaching. Practicum students do not

assume the degree of classroom responsibility they do during student teaching. Under the supervision of an experienced teacher, practicum students observe classroom activities, assist the teacher with day-to-day classroom management tasks, interact one-to-one with students, and instruct small groups. The cooperating teacher and university supervisor use the practicum to assess the student's readiness for the student teaching experience. For this reason, active student engagement in the practicum experience is necessary and expected.

### Student Teaching Experience

Student teaching, the culminating field experience, is a full-time, school district semester assignment that places a university student under the guidance of an experienced, qualified cooperating teacher. After an orientation period, the student teacher gradually assumes more responsibility for planning, instruction, and overall classroom management. Student teachers follow the daily schedule of the cooperating teacher and the building policies of the school, and function as regular staff members in arrival and departure times and attendance at school events. Daily attendance at school, barring emergencies, is required.

The student teaching experience follows the calendar of the local school district. A fall semester assignment will typically begin the latter part of August and end the latter part of January. A spring semester assignment will begin the latter part of January and end mid-June. Holiday breaks follow the school district calendar. Carrying other formal course work during the student teaching semester is strongly discouraged.

Find detailed policies and regulations regarding student teaching in the Teacher Education Field Experience Policies (November, 2014) ([http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe\\_policies.pdf?sfvrsn=4](http://www.education.wisc.edu/docs/WebDispenser/soe-documents/fe_policies.pdf?sfvrsn=4)). Students and staff are responsible for knowing and complying with the Field Experience policies. Many professional programs have their own separate handbooks and specific policies; students are also responsible for those policies and procedures.

### General Eligibility Requirements for Student Teaching

Minimum eligibility requirements apply to all students. Several subject areas require a specific grade point average unique to a particular program, or additional course work as a prerequisite to student teaching. Students are urged to check with their Education Academic Services and faculty advisors to be certain that all eligibility requirements have been met. Students should check these items well in advance to preclude last-minute schedule conflicts in preparation for the student teaching semester. Minimum requirements are:

- Admission to a School of Education certification program.
- Completion of all course prerequisites, such as the teaching methods course(s) and pre-student teaching practica. Students should check for other possible course requirements in their specific area of study.
- Passing a content examination in the certification area(s).

- For world languages, an immersion experience and the appropriate score on the oral and written proficiency examinations.

### **Student Teaching Application Procedures**

Information related to student teaching (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/field-work-student-teaching>) and the application process is available on the School of Education website. Please be aware that some program areas require students to file an application far in advance of the student teaching semester.

### **Alternative Placement Options for Student Teaching**

Alternative placement options include placements with the Institute for Urban Education, and teacher internships under the auspices of the Wisconsin Improvement Program:

- The UW System Institute for Urban Education (<https://uwm.edu/education/community/partnerships/institute-urban-edu>) helps pre-service teachers pursue their desire to become urban educators and to provide professional development opportunities for currently practicing teachers. Not all teacher education programs participate in the institute. Students should consult with their program coordinator for more information.
- The teacher internship is a licensed, full-semester assignment that replaces the student teaching experience. Interns are under contract with a school district and paid a modest salary. Internships are rarely available; students are notified by the program coordinator when they are offered by a district and are available to our students.

### **Special Placements**

The School of Education is committed to placing its students in classrooms with teachers we know, in schools led by principals we know. Thus, student teaching placements are made within the University of Wisconsin–Madison service area. In general the service area is 50 miles from Madison, but individual programs may (and do) reduce the size of their service area. Occasionally, students with extenuating circumstances are allowed special placements beyond this area. “Extenuating circumstances” have included spousal/partner relocation, family emergency, or a highly specialized placement. All special placements must be approved by the student’s program coordinator and Associate Dean Jeffrey Hamm. Students permitted special placements are usually liable for the cost of supervision (at least \$500). Special placements are not permitted due to financial need or to enhance employment opportunities.

### **Withdrawing From/Failing Field Experience Assignments**

Withdrawing from a field experience has serious implications for the student’s progress in the program. Students who withdraw or receive an unsatisfactory grade (including a “D”) from a field experience may not repeat such experiences without approval from the program coordinator and Associate Dean Jeffrey Hamm. Students withdrawing from or receiving an unsatisfactory grade in field experiences in one major or program may not enroll in another major or program without

written permission from the program coordinator and after consultation with Associate Dean Hamm.

Permission to repeat field experiences is not automatically granted. A confirmed field placement is considered an informal contractual agreement between the university and the school in which the student is located. Under this agreement, university faculty, cooperating teachers, and students assume certain responsibilities and obligations to one another. A student’s withdrawal from an assignment is considered to be an exception to the agreement and should occur only under the most unusual circumstances. Because of the consequences that withdrawal from a confirmed assignment may have on a student’s future progress in the teaching certification program, a student who contemplates such action is strongly urged to consult with the program coordinator and Associate Dean Hamm to fully understand the implications of such action and the options available.

## **Minority Group Relations and Conflict Resolution**

### **Minority Group Relations**

Wisconsin State teacher education regulations require students to complete a section titled *Minority Group Relations*. The rules identify Minority Group Relations as

- The history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin.
- The history, culture and contributions of women and various racial, cultural, language and economic groups in the United States.
- The philosophical and psychological bases of attitude development and change.
- The psychological and social implications of discrimination, especially racism and sexism in the American society.
- Evaluating and assessing the forces of discrimination, especially racism and sexism on faculty, students, curriculum, instruction, and assessment in the school program.
- Minority group relations through direct involvement with various racial, cultural, language and economic groups in the United States.

UW–Madison teacher education programs address these areas through course work and experiences in each professional education program. Students who successfully complete their professional program will have satisfied each of the areas of Minority Group Relations. For more detailed information about how required courses address Minority Group Relations for each program area, see the School of Education’s PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### **Conflict Resolution Requirement**

Wisconsin State teacher education regulations require all individuals pursuing teacher certification to have formal training in conflict resolution. This includes

- Resolving conflicts between pupils and between pupils and school staff.

- Assisting pupils in learning methods of resolving conflicts between pupils and between pupils and school staff, including training in the use of peer mediation to resolve conflicts between pupils.
- Dealing with crises, including violent, disruptive, potentially violent or potentially disruptive situations that may arise in school or activities supervised by school staff as a result of conflicts between pupils or between pupils and other persons.

All teacher certification programs include conflict resolution training in their required course work. For more detailed information about how conflict resolution is addressed in each program area, see the School of Education's PI 34 site (<http://www.education.wisc.edu/pi34>). Choose Certification Programs, select the program of interest, and click on Rules & Statutes.

### Phonics

As of July 1, 1998, the State of Wisconsin requires that all persons seeking initial and renewal licenses to teach reading or language arts in grades Pre-Kindergarten to Grade 6 (PK–6) must have successfully completed instruction in teaching reading and language arts using appropriate instructional methods, including phonics. "Phonics" means a method of teaching beginners to read and pronounce words by learning the phonetic value of letters, letter groups and syllables.

The Phonics requirement applies to students completing Elementary Education and Special Education certification programs. UW–Madison students fulfill this requirement through the successful completion of courses that are already required, so no additional course work is needed to meet this statutory requirement.

### Cooperatives

This licensing requirement is mandatory for secondary Social Studies (and Agri-Science) Education certification. Students with previous degrees in their subjects must also monitor and complete this requirement for certification and licensure.

Students typically complete the cooperatives requirement after being admitted to the Secondary Social Studies program and should consult with the program coordinator, Professor Alan Lockwood ([lockwood@education.wisc.edu](mailto:lockwood@education.wisc.edu)), regarding its completion.

### Portfolios

Students in certification programs are required to demonstrate their knowledge and professional development through the creation and maintenance of a portfolio. A portfolio has several purposes:

- To serve as a tool for teacher learning, growth, and development. Portfolios are intended to support students' efforts to become thoughtful and effective teachers.
- To provide documentation and/or evidence that students have satisfactorily met all teacher education standards required for initial teacher certification in Wisconsin. The portfolio helps to demonstrate students' achievement of these knowledge and performance standards.

- To provide a repository for student artifacts.
- To enhance students' technical literacy through the portfolio creation.
- To support the job preparation and interview process.

Portfolios consist of a variety of artifacts which students have chosen from their educational experiences to best represent their growth and development as teachers. Artifacts can include lesson plans, classroom observations, analyses of student learning, student work samples, photographs, video clips of instruction and reflective commentaries.

The student portfolio provides a foundation for the Teacher Performance Assessment (edTPA), a standardized evaluation required by Wisconsin for teacher licensure. The edTPA process also requires students to submit artifacts. These artifacts are scored by trained evaluators using a standardized set of edTPA rubrics.

For more information about the use of the portfolio in a specific teacher education program, please contact the program coordinator.

### Teacher Standards

UW–Madison teacher education students must meet all state licensing requirements for initial teaching certification in Wisconsin. These requirements, sometimes referred to as administrative rules "PI 34," mandate that individuals demonstrate proficiency on state-approved teaching standards. Each teacher education institution in Wisconsin has adopted a set of teacher education standards that meet state guidelines. These standards must be met by all students completing a licensing program. The current standards of the University of Wisconsin–Madison School of Education can be found on the school's website (<http://careers.education.wisc.edu/pi34/docs/Standards.pdf>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### Licensing Levels

The following licensing options are offered at UW–Madison.

- The Elementary Education program currently offers two licensing levels: *Early Childhood* and also *Middle Childhood through Early Adolescence*.
- The Special Education program certifies students at both the *Middle Childhood through Early Adolescence* level and also at the *Early Adolescence through Adolescence level*. The Special Education/Elementary Education dual major option certifies students only at the *Middle Childhood through Early Adolescence* level.

- Secondary Education programs certify students to teach their subject area at the *Early Adolescence through Adolescence* level.
- Students completing Language Education programs will be licensed at the *Early Childhood through Adolescence* level.
- Students in special fields such as Art, Communication Sciences and Disorders, Music, and Physical Education will be licensed at the *Early Childhood through Adolescence* level.

### Wisconsin State Licensing

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo>). A Criminal Background Investigation (CBI) will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, 139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that (1) all certification requirements are met; (2) student teaching (following the school district calendar) is completed; (3) final grades are posted and reviewed; (4) the degree is "posted" by the registrar's office (four to five weeks after graduation); and (5) a recommendation for certification is received from the program faculty. The Wisconsin Department of Public Instruction may require an additional 6 to 12 weeks for license processing. See Educator Licensing (<http://www.education.wisc.edu/soe/pk-12-education/pathways-to-licensure/educator-licensing>) for additional information about the licensing process.

### Licensing Outside of Wisconsin

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website that provides links (<http://2b.education.uky.edu/certification-requirements-by-state>) to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to Education Academic Services at 139 Education Building, 1000 Bascom Mall, or by email ([mlpatton@wisc.edu](mailto:mlpatton@wisc.edu)) to be completed. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must be completed before sending the form to EAS.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

## THEATRE AND DRAMA

A degree in theatre and drama from the University of Wisconsin–Madison can open doors to a wide range of careers. Our alumni are successful in theatre, film, television, gaming, production management, development, design, education, and all aspects of the entertainment industry. Our faculty are active theatre professionals who bring current and practical knowledge into the classrooms and productions. Our department is well known for the individual attention, mentorship, and commitment we give our students.

Through mainstage, open-stage, and student produced works, the Department of Theatre and Drama provides students with excellent opportunities to apply skills and techniques learned in the classroom in fully staged productions.

New theatre and drama majors will complete a bachelor of science degree in theatre and drama (p. 1504) through the School of Education. Theatre and drama majors may informally select areas of emphasis such as design, stage management, directing, acting, or theatre technology.

Students whose primary interest is acting may pursue the Acting Specialist option. An audition is required prior to acceptance to the option, and is held each spring semester. Students should see the department advisor for more information on the Acting Specialist option.

Nonmajors who wish to extend their familiarity with theatre in theory and practice are encouraged to enroll in department courses and participate in productions. The department has hosted students from many disciplines—such as law, business, medicine, art, dance, science and social work—who wish to develop effective communication skills, enhance problem-solving abilities, and cultivate visual acumen.

## DEGREES/MAJORS/CERTIFICATES

- Theatre and Drama, B.S. (p. 1502)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Theatre and Drama can be found on the department's website. (<http://theatre.wisc.edu>)

## THEATRE AND DRAMA, B.S.

A degree in theatre and drama from the University of Wisconsin–Madison can open doors to a wide range of careers. Our alumni are successful in theatre, film, television, gaming, production management, development, design, education, and all aspects of the entertainment industry. Our faculty are active theatre professionals who bring current and practical knowledge into the classrooms and productions. Our department is well known for the individual attention, mentoring, and commitment we give our students.

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Majors will complete a bachelor of science degree in theatre and drama through the School of Education. Students may informally select areas of emphasis such as design, stage management, directing, acting, or theatre technology. Students whose primary interest is acting may pursue the Acting Specialist option. An audition is required prior to acceptance to the option, and is held each spring semester. Students should see the department advisor for more information on the Acting Specialist option.

Nonmajors who wish to extend their familiarity with theatre in theory and practice are encouraged to enroll in department courses and participate in productions. The department has hosted students from many disciplines—such as law, business, medicine, art, dance, science and social work—who wish to develop effective communication skills, enhance problem-solving abilities, and cultivate visual acumen.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

New freshmen and off-campus transfers are admitted directly to the B.S.–Theatre and Drama degree program. The program currently admits on-campus students to begin in the fall, spring, and summer.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

Incoming freshmen and transfer students enter directly into the B.S.–Theatre and Drama program upon admission to UW–Madison. All other on-campus students should complete and submit an application, as well as transcripts from all other colleges or universities attended, to Education Academic Services, Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. Applications cannot be processed without a complete academic record. (A transfer credit evaluation cannot be accepted in place of a transcript.) The program application must be signed by the Department of Theatre and Drama academic advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly encouraged to meet with the Department of Theatre and Drama academic advisor before coming to campus. Coursework taken at another institution may need to be evaluated by the department academic advisor or a faculty member in the Department of Theatre and Drama. Prospective transfer students are strongly advised to meet with an Education Academic Services advisor in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an Education Academic Services advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1227).

### APPLICATION AND ADMISSION

While new freshmen and off-campus transfers are admitted directly to the B.S.–Theatre and Drama degree program, all other current UW–Madison students seeking to enter the B.S.–Theatre and Drama program must apply for admission to the program. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Apply to a Program (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission>) page for updates to eligibility requirements prior to submitting an application.

#### CRITERIA FOR ADMISSION

Eligibility for admission consideration to B.S.–Theatre and Drama:

- Cumulative grade-point average on all transferable college-level coursework of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Filing of all required paperwork and other application materials, including program application and transcripts. Application must be signed by the Department of Theatre and Drama academic advisor.

<sup>1</sup> A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted"

coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1227).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PROGRAM STRUCTURE

The bachelor of science (B.S.) degree program in theatre and drama has three primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major requirements* permit in-depth studies of theatre and drama.
- *Additional electives* to reach the minimum of 120 degree credits. These credits allow students to pursue individual areas of interest, such as a second major or additional theatre and drama credits. Many B.S.–Theatre and Drama students complete an additional major from the College of Letters & Science. Some use this major to complement their theatre preparation, while others select majors that reflect interests completely unrelated to theatre.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1234) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an

opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science. Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1234) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs, Athletic Training, and Kinesiology; Exercise and Movement Science have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1234) to total 40 Credits.**

### MAJOR REQUIREMENTS

Complete at least 40 major credits, distributed as indicated below. At least 15 credits of upper-level major coursework (courses designated intermediate or advanced) must be taken in residence with a minimum 2.5 grade point average.

#### Acting, 3 credits

Code	Title	Credits
THEATRE 150	Introduction to Acting	3



**Theatre History, 12 credits**

Code	Title	Credits
THEATRE/ENGL 120	Introduction to Theatre and Dramatic Literature <sup>1</sup>	3-4
THEATRE 224	History of Theatrical Production	3
THEATRE 324	Traditions in Dramatic Literature	3
THEATRE 424	Contemporary World Theatre and Dramatic Literature	3

<sup>1</sup> The 4-credit option of ENGL/THEATRE 120 satisfies the General Education Communication Part B requirement.

**Production, 8 credits**

Code	Title	Credits
THEATRE 160	Introduction to Stage Production	3
THEATRE 161	Backstage Laboratory I	2
THEATRE 162	Theatre Production Laboratory	1
Select one of the following:		2-6
THEATRE 361 & THEATRE 561	Backstage Laboratory II and Backstage Laboratory III	
THEATRE/ CURRIC 462	Theatre for Young Audiences: Production	

**Design, Directing, and Drama in Education, 3 credits**

Code	Title	Credits
Select one of the following: <sup>1</sup>		
THEATRE 363	Principles and Practice of Stage Costume Design	3-4
THEATRE/ART 366	Stage Lighting I	3-4
THEATRE/ART 372	Set Design I	3
THEATRE 368	Fundamentals of Directing	3
THEATRE/CURRIC/ SLAVIC 362	Drama for Teaching and Learning	3

<sup>1</sup> Additional courses from this list may be used as elective credits.

**Electives**

Select any Theatre and Drama (<http://guide.wisc.edu/courses/theatre>) department courses, to total 40 credits. Majors are urged to consult the department academic advisor in selecting courses, especially when building an emphasis in any one area.

**REQUIREMENTS FOR THE ACTING SPECIALIST OPTION**

Theatre and drama majors with a primary interest in acting may audition for the Acting Specialist option. This is a highly structured program of study, best begun as early as possible in the student's career. Specific courses are required in acting, voice, movement, directing, technical production, and dramatic literature and theatre history. Admission is by audition only; auditions are held at the midpoint of each spring semester prior to enrollment for fall classes. Students must be enrolled in or have successfully completed THEATRE 250 Fundamentals of Acting before admission to the program. Students who qualify for the Acting Specialist option are expected to audition for University Theatre productions.

**Production, 7 credits**

Code	Title	Credits
THEATRE 160	Introduction to Stage Production	3

THEATRE 161	Backstage Laboratory I	2
THEATRE 162	Theatre Production Laboratory	1
Select one of the following:		1-6
THEATRE 361	Backstage Laboratory II	
THEATRE 561	Backstage Laboratory III	
THEATRE/ CURRIC 462	Theatre for Young Audiences: Production	

**Theatre History, 12 credits**

Code	Title	Credits
THEATRE/ENGL 120	Introduction to Theatre and Dramatic Literature <sup>1</sup>	3-4
THEATRE 224	History of Theatrical Production	3
THEATRE 324	Traditions in Dramatic Literature	3
THEATRE 424	Contemporary World Theatre and Dramatic Literature	3

<sup>1</sup> The 4-credit option of THEATRE/ENGL 120 Introduction to Theatre and Dramatic Literature satisfies the General Education Communication Part B requirement.

**Voice, Movement and Acting, 18 credits**

Code	Title	Credits
THEATRE 140	Voice Training	3
THEATRE 240	Intermediate Voice Training	3
THEATRE 250	Fundamentals of Acting	3
THEATRE 350	Acting Realism	3
Select one of the following Movement courses:		3
THEATRE 342	Fundamentals of Movement for the Stage	
THEATRE 351	Fundamentals of Asian Stage Discipline	
Select one of the following Styles courses:		3
THEATRE 440	Musical Performance for the Actor	
THEATRE 450	Acting Styles	
THEATRE 541	Acting Shakespeare	
THEATRE 550	Advanced Scene Study	
THEATRE 557	Advanced Theatre for Cultural and Social Awareness	

**Directing and Education, 3 credits**

Code	Title	Credits
Select one of the following:		3
THEATRE 357	Introduction to Theatre for Cultural and Social Awareness	
THEATRE/ CURRIC/ SLAVIC 362	Drama for Teaching and Learning	
THEATRE 368	Fundamentals of Directing	
THEATRE 379	Introduction to Stage Management	

**HONORS IN THE MAJOR**

Students may earn *Honors in Theatre and Drama* by satisfying both the requirements for the major and these additional requirements:

- Maintain a minimum GPA of 3.5 in major courses numbered 300 and above, and an overall GPA of at least 3.3 in all courses taken at UW–Madison at the time of graduation.
- Complete elective credits in the theatre and drama major, distributed as follows: 3 credits of 300 level or above, 6 credits of 400 level or above, and 6 credits of 500 level or above.
- In addition, complete a two-semester senior honors thesis, THEATRE 681 Senior Honors Thesis (3 credits) and THEATRE 682 Senior Honors Thesis (3 credits), for a total of 6 credits.
- Complete 3 credits from the Integrated Liberal Studies (ILS) Program.

Students should be aware that course offerings are influenced by a number of factors, (e.g., current staffing, number of majors), and some courses are not offered on a regular basis. Students should consult with the department's academic advisor regarding course selection and other ways to maximize the Honors in the Major experience.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.5 cumulative major grade point average.
- 2.5 cumulative grade point average in all upper-level major coursework ("upper-level" is defined as all "intermediate" and "advanced" coursework).
- Major Residency: Students must complete at least 15 credits of upper-level (intermediate and advanced) major coursework in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total credits: A minimum of 120 credits are required for graduation in the B.S.–Theatre and Drama degree program.

### DEGREE AUDIT REPORTING SYSTEM (DARS)

At UW–Madison, a DARS report is used to document a student's progress toward the completion of their degree. This degree audit identifies the requirements that have already been completed, and also those that remain unsatisfied. A DARS report can offer suggestions about appropriate courses that may be taken to meet specific requirements and can assist in the academic planning process.

Students can access DARS reports through their Student Center in *My UW–Madison*. Go to the Academics tab and find DARS on the dropdown menu.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program or major on campus. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE) should request a "what if" DARS report of their professional program of interest.

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course

options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is the document of record, i.e., certifying document of degree completion, for program areas in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. Demonstrate the ability to evaluate the art and craft of theatre both critically and conceptually.
2. Demonstrate the ability to analyze a script for the basic elements of plot, character, theme, language, rhythm, mood and elements of production.
3. Demonstrate through research and practice, knowledge of theatrical history and literature from ancient Greek to present.
4. Demonstrate competency in one or more areas of theatre specialization.
5. Demonstrate the practical knowledge and the professional skills required to pursue entry-level professional work and/or advanced studies in theatre.
6. Demonstrate the ability to creatively and generously collaborate as theatre artists.

## ADVISING AND CAREERS

### THEATRE AND DRAMA DEPARTMENTAL ADVISING

Prospective off-campus and on-campus B.S.–Theatre and Drama students will meet with department academic advisor Jim Stauffer, Department of Theatre and Drama, 6004 Vilas Communications Hall, 821 University Ave. (main office) 608-263-2329, jbstaufer@wisc.edu. Students are also strongly encouraged to confer with an Education Academic Services advisor on a regular basis, see below.

## GENERAL SCHOOL OF EDUCATION ADVISING

All undergraduate students in the School of Education are served by three offices devoted to academic and/or career advising. Each student in the School of Education is assigned at least one advisor and is encouraged to meet with the advisor on a regular basis. Students will also be assigned a faculty or staff advisor when admitted to the professional component of their degree program. Departmental advisors provide more in-depth knowledge of the major and of courses offered by the department.

### UNDERGRADUATE ADVISING AND ACADEMIC DEAN'S OFFICE—EDUCATION ACADEMIC SERVICES (EAS)

139 Education Building, 1000 Bascom Mall; 608-262-1651

[www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising](http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising>)

Education Academic Services (EAS) is the undergraduate dean's office for students in the School of Education. Staff members interpret school regulations, policies, and program requirements; take exceptions around requirements and deadlines; advise current and prospective students; monitor students having academic difficulties; coordinate field placements; facilitate the program admissions process; and maintain the official files of students in the school.

Students should meet with an advisor during their first semester on campus (if not before) and are encouraged to meet with an advisor at least once a semester. This is particularly important during the freshman and sophomore years. Appointments may be arranged by calling or visiting the office.

EAS advisors answer questions and provide guidance to current and prospective students. They consult with and refer students to faculty members and departmental advisors. Once a student is admitted to a professional program within the School of Education, he or she will also be assigned a faculty or staff advisor. Advising then becomes a partnership, with EAS and OURR advisors continuing to help students with course selection, degree progress monitoring, academic difficulties, and interpretation of policies and procedures.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department, and, in the case of certification programs, follow the students' progress through their professional courses. These divisions are flexible, and students are encouraged to consult with all advisors who can help with a situation or answer a question.

### OURR: OFFICE OF UNDERGRADUATE RECRUITMENT AND RETENTION (STUDENT DIVERSITY PROGRAMS)

105 Education Building, 1000 Bascom Mall, 608-262-8427 or 608-262-1651

[www.education.wisc.edu/sdp](http://www.education.wisc.edu/sdp) (<http://www.education.wisc.edu/sdp>)

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. OURR staff work collaboratively with Education Academic Services and campus and community partners to support underrepresented students interested in majors in the School of Education.

OURR staff perform outreach, recruitment, and advising on behalf of the School. OURR staff also support current students with their personal and professional growth, their transition from high school to college, financial aid, and career exploration.

OURR works to build a network of students and graduates who may strengthen, transform, and lead their communities through education, service, and other contributions. Students are invited to visit OURR staff at 105 Education Building—stop in, or call one of the numbers listed above to set up an appointment.

### SCHOOL OF EDUCATION CAREER CENTER

L107 Education Building, 1000 Bascom Mall, 608-262-1755

<http://careercenter.education.wisc.edu/>

Need assistance with any of the following?

- Exploring career options linked to School of Education majors
- Seeking a major that incorporates individual passions, interests, and values that will help one reach specific career goals
- Researching graduate schools and preparing application materials
- Beginning a job search and learning where to start and what to do
- Seeking assistance with developing a résumé, a cover letter, or interviewing skills
- Networking and connecting with potential employers

The Career Center provides resources and individual consultations to assist students in reaching their career goals. A plethora of resources can be found on the Career Center website (<http://careercenter.education.wisc.edu/>):

- Explore career possibilities for specific majors in *Investigate Career Options*. This section of the website provides tools for clarifying a student's personal criteria for success, linking specific career options to majors, and identifying steps for career/major selection. It includes strategies for making the most of a student's academic and student experience.
- Confirm major and career decisions. Gain hands-on experience in the career field of study. Assess the perceptions of selected career and major options for accuracy. Develop professional and soft skills. The *Test Drive and Confirm Career Choice* section provides strategies for acquiring real-world experience.
- Preparation is critical for entering one's next career phase. Learn about graduate school requirements and the application process. Develop promotional materials for employers and/or graduate schools and obtain feedback and suggestions for enhancing them. Acquire materials that support one's applications. The *Prepare and Connect* section provides offers additional details.
- *Implement* helps students plan for the future. Attend recruiting events. Apply for graduate school or for job opportunities. Practice interviewing skills. Interview. Negotiate job and graduate school offers.

Personalized career assistance is available through individual appointments with consultants in the Career Center. To schedule an appointment visit, <http://bit.ly/CCAppt>.

Informational workshops and career-related events are conducted each semester. The schedule of these events can be found on the center's website (<http://careercenter.education.wisc.edu/workshops>).

The Career Center coordinates teacher recruitment fairs each fall and spring semester and collaborates with career centers across campus to provide campus-wide career fairs at the beginning of each semester.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Theatre and Drama can be found on the department's website. (<http://theatre.wisc.edu>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1247) page.

# SCHOOL OF HUMAN ECOLOGY

The School of Human Ecology (SoHE) at UW–Madison is a place where faculty and advisors work closely with students to prepare them for careers that improve the quality of people’s lives. Our majors are: Community and Nonprofit Leadership, Human Development and Family Studies, Interior Architecture, Personal Finance, Retailing and Consumer Behavior, and Textiles and Fashion Design. Each program provides a solid curriculum of practical skills that lead students to exciting professions, a better understanding of people and our world, and a bachelor of science undergraduate degree.

SoHE is located in Nancy Nicholas Hall, a beautiful and newly renovated building that provides first-class, cutting-edge classrooms and studio spaces. Within these walls we connect students to their passions, helping them discover exciting careers and opportunities to make a meaningful impact on individuals, families, and communities. Faculty, students, and staff are dedicated to providing students with solid and meaningful education through coursework, internships, travel, student organizations, community involvement, research, and scholarship.

Learn more about SoHE and its majors at [sohe.wisc.edu](http://sohe.wisc.edu) (<http://www.sohe.wisc.edu>).

## DEGREES/MAJORS/CERTIFICATES

- Community and Nonprofit Leadership, B.S. (p. 1514)
- Human Development and Family Studies, B.S. (p. 1528)
- Individual Major, B.S. (p. 1531)
- Interior Architecture, B.S. (p. 1523)
- Personal Finance, B.S. (p. 1517)
- Retailing and Consumer Behavior, B.S. (p. 1520)
- Textiles and Fashion Design, B.S. (p. 1525)

## PEOPLE

Visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## ENTERING THE SCHOOL

### APPLYING TO UW-MADISON

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Students who indicate interest in a SoHE major on their UW–Madison application will be admitted to the SoHE program or pre-program of choice upon admittance to the university. In addition, students may indicate interest in a SoHE major when registering for Student Orientation, Advising, and Registration (SOAR).

### VISITING CAMPUS AND SOHE

SoHE holds monthly visit events for prospective students and their families and guests.

View and register (<https://www.admissions.wisc.edu/visitbucky/events.php?etypeid=22>) for an upcoming visit event.

If you are unable to attend one of these dates, please contact the SoHE Student Academic Affairs and Career Development Office at 608-262-2608 or [advising@sohe.wisc.edu](mailto:advising@sohe.wisc.edu) to schedule an appointment.

### CURRENT UW–MADISON STUDENTS

First-year students in good academic standing and first-semester transfer students may declare SoHE majors upon request. All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by attending a Becoming a SoHE Student Workshop (<https://sohe.wisc.edu/prospective-students/prospective-students/becoming-sohe-student-workshops>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>) for application information and deadlines.

### REENTERING STUDENTS

Students previously enrolled at the university who have not attended for a semester or more must complete a reentry application as outlined by the UW–Madison Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>). Students who were enrolled in a School of Human Ecology program before their absence from UW–Madison will be readmitted to that program, provided they were in good academic standing when they left (i.e., not on probation, strict probation, or dropped by the university). Reentry applicants who were dropped by the university are asked to submit supplemental application materials. Instructions for the supplemental application are sent after the student has submitted the online reentry application.

Students who were previously enrolled in another UW–Madison school or college will not be admitted directly to a School of Human Ecology program. They must apply for reentry to the university with another school or college—usually the school or college in which they were previously enrolled. Once readmitted to the university, students may apply to the desired SoHE program through the application process for that program. For information about the school’s programs and application processes, see *Applying to Human Ecology as an On-Campus Student* (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>).

It is recommended that students who have been readmitted to a School of Human Ecology program schedule an appointment with an academic advisor in the Student Academic Affairs & Career Development Office.

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore

careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

As a SoHE major, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a three-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Student Academic Affairs & Career Development Office (<https://sohe.wisc.edu/prospective-students/contact-us>).

For more information, visit SoHE Internships (<https://sohe.wisc.edu/prospective-students/career-preparation/internships>).

## STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- American Society of Interior Designers - Student Chapter (IDO)
- Apparel and Textile Association (ATA)
- Association of Fundraising Professionals—UW—Madison Chapter
- Community and Nonprofit Leaders (CNLUW)
- Financial Occupations Club for University Students (FOCUS)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Students for Families and Children (SFC)
- Student Retail Association (SRA)

## POLICIES AND REGULATIONS

### SCHOLASTIC ACTIONS

#### FAILURES AND INCOMPLETES

**Failures.** Every course grade of F counts as 0 grade points, and as any other grade, remains permanently on the transcript. A student who fails a required course must repeat the course and secure a passing grade as soon as possible. The failure may not be addressed by repeating the course at another college or university.

**Incompletes.** An Incomplete may be granted when a documented illness or other substantiated hardship causes the student to be unable to take final examination or complete a limited portion of the course assignments. Under these conditions, a student who has carried a passing grade until near the end of the semester may request a grade of Incomplete. It is up to the instructor to decide whether an Incomplete is warranted. If granted a grade of Incomplete (I), the work must be completed and graded no later than the close of the next semester of residence at UW—Madison (exclusive of summer term). If not completed and graded by the last class day, the grade will lapse into a Failure (F). Instructors have the authority to set an earlier deadline for finishing up an incomplete. With documentation of extenuating circumstances, the student may seek permission to extend an Incomplete beyond the semester in which the course was scheduled to be completed. An extended Incomplete must be removed within the next semester in residence or the grade will lapse into Failure (F). Incompletes incurred during the summer session must also be completed no later than the close of the next semester in residence under the same rules. **Students are ineligible for the dean's list for the semester in which a grade of Incomplete is submitted.**

### PROBATION AND DROPPED STATUS

**Failure to earn at least a 2.0 GPA** will result in the status of *Probation, Continued Probation, Strict Probation, Continued Strict Probation, or Dropped* from the university. Such actions are based on

1. the status of the student as a result of any previous academic action,
2. the cumulative GPA including the current semester, and
3. the GPA for the semester just completed.

Academic Actions will appear on the memoranda section of a student's transcript ([https://registrar.wisc.edu/student\\_record.htm](https://registrar.wisc.edu/student_record.htm)).

### DEFINITIONS OF SCHOLASTIC ACTIONS

**Probation.** A student with no previous action who earns a semester or summer term GPA less than 2.0 but 1.0 or more will be placed on probation.

**Continued Probation.** A student on probation whose cumulative GPA remains below 2.0 and whose semester or summer term GPA is 2.0 or above will be placed on continued probation. A student on continued probation whose cumulative GPA remains below 2.0 and whose semester or summer term GPA is 2.0 or above will be placed again on continued probation.

**Strict Probation.** A student with no previous action but with a current semester or summer term GPA below 1.0 will be placed on strict probation. A student on probation whose semester or summer term GPA is less than 2.0 but 1.5 or above will be placed on strict probation.

**Continued Strict Probation.** A student on strict probation or continued strict probation who earns a semester or summer term GPA of 2.0 or above but whose cumulative GPA remains below 2.0 will be placed on continued strict probation.

**Dropped from the University.** A student on probation whose semester or summer term GPA is less than 1.5 will be dropped for one year.

A student on strict probation whose semester or summer term GPA is less than 2.0 will be dropped for at least one year.

**Removal from Probation.** Students on probation or strict probation will be automatically removed from probation when their cumulative GPA reaches 2.0 or more.

### READMISSION AFTER DROPPED STATUS

Students who were dropped from the university based on academic performance are eligible for readmission consideration after one full calendar year. Students dropped for a third time will not be readmitted.

In order to reenter the university after one full year, a student must apply for readmission to the School of Human Ecology *and* for reentry to the university. **(Please note that a student is never guaranteed readmission after being dropped. Readmission is most likely if the student has addressed the issues that contributed to being dropped from the university and has been proactive in preparing for a successful return.)**

To apply for readmission to SoHE and the University of Wisconsin—Madison after being dropped, a student must:

1. Complete the SoHE Readmission Request Form ([https://uwmadison.qualtrics.com/SE/?SID=SV\\_5hhKaOxEeI9ATxb](https://uwmadison.qualtrics.com/SE/?SID=SV_5hhKaOxEeI9ATxb)).

**To ensure readmission consideration, follow these deadlines:**  
Summer or Fall Term—Apply by February 1

Spring Term—Apply by October 1

2. Complete the university reentry application (<http://www.admissions.wisc.edu/reentry.php>).
3. Schedule an appointment with a SoHE academic advisor by calling 608-262-2608.
  - Bring a copy of the completed SoHE Readmission Request Form and other supporting documentation (e.g. transcripts from other universities, other documents which support personal, academic, or health progress made during the time away) to the appointment.
  - Use this advising appointment to: (re)establish a relationship with your academic advisor, review your enrollment plan for the term you intend to return, and review your degree completion plan.
4. The SoHE academic advisor will forward the Readmission Form, supporting documentation, and enrollment plan to the Assistant Dean for Academic Affairs for review. The dean may choose to consult with the student's previous academic department, Undergraduate Program Council and/or the student to make a decision. When a readmission decision has been made, the assistant dean will contact the student in writing. Students who are granted permission for re-entry will be readmitted on strict academic probation to the School of Human Ecology.

## DECLARING ADDITIONAL MAJORS

School of Human Ecology undergraduates can declare an additional undergraduate major in the College of Letters & Science. This is not a second degree. The additional major is noted on the student's transcript if all requirements of the Letters & Science major are completed.

School of Human Ecology students must plan to finish all additional academic programs concurrently with their SoHE degree. The School of Human Ecology will graduate a student at the end of the semester (spring, summer, or fall) in which all SoHE degree requirements are complete. Graduation will not be postponed for incomplete additional major(s), certificate program(s), specialization(s), study abroad, or honors program(s).

## EARNING TWO UNDERGRADUATE DEGREES SIMULTANEOUSLY

School of Human Ecology students interested in completing two degrees simultaneously (as opposed to two majors) should consult with their academic advisor early in their academic career to discuss the feasibility of completing requirements for both degrees. Degree combinations may come from two Human Ecology programs or from a Human Ecology program and a degree program in another school or college. Students must complete all of the requirements for both degrees, which include general education requirements, major coursework, and related disciplinary work.

It is the student's responsibility to be aware of any rules or regulations that could potentially impose additional financial responsibilities as a result of attempting to complete two degrees simultaneously. Please note that some campus schools and colleges do not permit dual degrees for their students, thus preventing Human Ecology degree combinations with degrees in these schools and colleges. Students wishing to earn two undergraduate degrees must follow these academic policies:

**If the two degrees to be earned are within the School of Human Ecology,** at least 30 additional credits and all course and grade point requirements must be completed for the second degree. Thus, a minimum of 150 credits would be required. The two degree programs must differ sufficiently to permit the total credits to be accumulated (for instance, personal finance and retailing & consumer behavior do not differ to the extent that it would take an additional 30 credits to complete the second degree; therefore, earning both degrees simultaneously will not be allowed). Before the start of the senior year in residence, students must meet the criteria for admission to both programs, must be certified to enroll in both programs, and must obtain academic dean's approval. The two degrees must be completed simultaneously. Some courses may satisfy requirements for both degrees, but course substitutions or curriculum exceptions between programs will be prohibited.

**If the two degrees to be earned are from two different schools/colleges at UW-Madison,** the two degree programs must differ sufficiently so that the combined total requirements for the two degrees are at least 150 credits. Admission into the other school/college shall be based on the admission criteria for that particular school/college. The student must be certified to enroll in both programs/schools/colleges and written permission to complete the two degrees must be obtained from academic deans in both schools/colleges before the start of the student's senior year in residence. The two degrees must be completed simultaneously. Some courses may satisfy requirements for both degrees, but course substitutions or curriculum exceptions between programs will be prohibited for the Human Ecology program.

## RESIDENCY REQUIREMENT

The university requires that the last 30 credits be earned in residence at UW-Madison for students to be recommended for a degree, unless the student's major program requires completion of the degree at a cooperative institution. Permission of the assistant dean of academic affairs must be secured *in advance* to take any portion of the senior year at another institution or by correspondence. Students should initiate permission through their SoHE academic advisor.

## CREDIT OVERLOAD

A full-time student carries a minimum of 12 credits to a maximum of 18 credits, with the usual or average credit load being 15–16 credits per semester. A student requesting more than 18 credits in a semester needs a signed request with approval from the School of Human Ecology academic dean. Students should initiate permission through their SoHE academic advisor. Students requesting this credit load must have earned a grade point average of at least 3.0 during the preceding semester on a program of at least 12 graded credits. "Graded credit" does **not** include courses taken on the Pass/Fail basis or Incompletes. Requests will be considered on an individual basis.

## PASS/FAIL

The privilege of electing courses on a pass/fail basis is extended to undergraduate students in the school. Students who are in good standing academically (not on probation) may elect one course on the pass/fail basis per term. The summer sessions collectively count as one term.

**A course taken pass/fail must be an elective.** A student may **not** take a required course or a prerequisite to a required course under this privilege. A maximum of 16 pass/fail credits may be counted toward a B.S. degree from the School of Human Ecology. **Courses taken pass/fail will count toward degree credits but will be excluded in the computation of grade point average and honors.**

Requests to take a course under the pass/fail privilege are initiated through the Course Change Request in the MyUW (<http://my.wisc.edu>) Student Center. Instructions for making a course change request can be found on the Registrar's website (<http://registrar.wisc.edu>). After making the request in MyUW, the request is routed to the Student Academic Affairs & Career Development Office for approval or further communication.

The registrar will convert final grades submitted by the instructor, who is not informed of the student's pass/fail status, to an S (pass) for grades A, AB, B, BC or C, and to a U (fail) for a grade of D or F. The grade is excluded from the GPA.

## APPEALS

### APPEAL OF A SOHE GRADE

This appeal process is for a student who is dissatisfied with a grade received in a SoHE course.

1. The student will first discuss the grade appeal with the instructor of the course.
2. If the student and instructor cannot come to an agreement, the student will provide a formal written grade appeal to the assistant dean in SoHE. The written appeal must include: the class, instructor, grade received, date and conclusion of meeting with instructor, the specific reason(s) for appealing the grade and email address and telephone number where they can be reached for follow-up. Send to [saadean@mail.soh.wisc.edu](mailto:saadean@mail.soh.wisc.edu).
3. The assistant dean will forward the appeal to the appropriate department chair. The department chair will perform the due diligence necessary (including, but not limited to, meeting with the instructor and student) to assess the merits of the appeal request and will provide a decision in writing to the assistant dean.
4. The assistant dean will communicate the decision to both the student and instructor in writing.
5. Should the student wish to appeal the decision further, the assistant dean will forward the appeal to the SoHE Undergraduate Program Council. The committee will perform the due diligence necessary (which may include, but not limited to, meeting with the instructor and department chair and/or student) to assess the merits of the appeal request and will provide a decision in writing to the assistant dean.
6. The assistant dean will communicate the decision to the student, the instructor, and the department chair in writing.

### APPEAL OF DENIAL OF ADMISSION TO A SOHE UNDERGRADUATE PROGRAM

This appeal process is for a student who was denied admission to a SoHE undergraduate program.

Students who feel they have a compelling reason to appeal their admissions decision may do so in writing by the deadline indicated in the admission letter. Appeals must satisfy one of the following factors in order to be considered:

- The student believes a factual error was self-reported on the application or made by the admissions committee during review of the application.
- There is new information regarding academic or non-academic extenuating circumstances.

While admission appeals satisfying the above conditions will be reviewed by the admissions committee, it is important to understand that simply meeting these criteria in no way guarantees acceptance into the program.

### Filing an Appeal

1. The student will file a letter of program admission appeal to the assistant dean in SoHE at [saadean@mail.soh.wisc.edu](mailto:saadean@mail.soh.wisc.edu), stating the facts of the situation based on one or both of the conditions listed above and the student's email address and telephone number where they can be reached for follow-up. Any additional documentation or supporting evidence should be titled and attached to the letter of appeal. The deadline by which a student must file an appeal will be written in the denial letter for the undergraduate program in question. For a situation where grades/credits were not posted to a student's record prior to applying to the program, the student record must be complete with grades and credits on the official UW–Madison record by the time the appeal is filed in order to be considered.
2. The assistant dean will forward the appeal to the appropriate departmental admissions committee. The admissions committee will perform the due diligence necessary to assess the merits of the new information for the appeal and will provide a decision in writing to the assistant dean.
3. The assistant dean will communicate the decision to both the student and departmental admissions committee in writing.
4. Should the student wish to appeal the decision further in the case of extenuating circumstances, the assistant dean will forward the appeal to the SoHE Undergraduate Program Council (UPC). The UPC will perform the due diligence necessary (which may include, but not limited to, meeting with the admissions committee, department chair, and/or student) to assess the merits of the appeal and will provide a decision in writing to the assistant dean.
5. The assistant dean will communicate the decision to the student and the admissions committee in writing.

### APPEAL OF BEING DROPPED BY UW–MADISON FOR ONE YEAR

SoHE students who are dropped from the university based on academic performance are permitted to appeal for readmission consideration immediately after being dropped. Students with documentation of special circumstances outside their control, evidence that these circumstances have changed, and realistic strategies in place to improve their academic performance have the greatest likelihood of a successful appeal.

### Filing An Appeal

1. Students wishing to appeal their dropped status must do so prior to the deadline outlined in their dropped status notification. Students who do not appeal before the deadline must wait at least one full calendar year before being eligible for readmission consideration. The appeals process is initiated when students complete the online Dropped Status Appeal Form ([https://uwmadison.qualtrics.com/SE/?SID=SV\\_6Lv7QPa3P6Ay7mR](https://uwmadison.qualtrics.com/SE/?SID=SV_6Lv7QPa3P6Ay7mR)).
2. The Assistant Dean for Student Academic Affairs will submit the appeal information to the SoHE Undergraduate Program Council (UPC) for review. UPC will make a decision regarding the appeal before the beginning of the next term.
3. The assistant dean will communicate the appeal decision to the student in writing. If the appeal is granted, the student will be readmitted to the university on strict probation. If the appeal is not granted, the dropped status is sustained and the student is



eligible for readmission consideration **one full calendar year after** the dropped date.

## LATE DROP PETITION

SoHE requires that students follow drop deadlines outlined by the Office of the Registrar (<https://registrar.wisc.edu>). Under certain special situations students may request an exception to drop one or more courses after the drop deadline through a petition.

Late Drop Petitions are only considered when students face significant, unforeseeable circumstances outside of their control that negatively impact their ability to successfully complete a course(s).

Students who believe they meet the requirements to petition must meet with their SoHE academic advisor and complete the online petition form ([https://uwmadison.co1.qualtrics.com/SE/?SID=SV\\_2lBtoSD5GxRhPBb](https://uwmadison.co1.qualtrics.com/SE/?SID=SV_2lBtoSD5GxRhPBb)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### SOHE GENERAL EDUCATION REQUIREMENTS

Seven undergraduate majors are available in the school. There are common general education requirements for all SoHE majors, but these are reflected differently in each program. Please review each major requirement page for the specific general education courses needed for the degree.

Code	Title	Credits
Literature		3
	Select 3 credits designated Literature breadth	

Humanities <sup>1</sup>	6
Social Science	9
Select 9 credits designated Social Science breadth	
Physical, Biological, and Natural Science	9
Select 9 credits designated Physical, Biological, and/or Natural Science breadth	
Human Ecology Breadth	
Select 3 credits in the School of Human Ecology taken outside the major	
Major Requirements and Electives	
Minimum total for graduation: 120 credits with no fewer than 25 credits taken within the School of Human Ecology.	

<sup>1</sup> SoHE will accept as humanities credit courses from designated humanities breadth courses as well as the following areas or departments: art, art history, classics, English, foreign languages (including beginning languages), cultural history, history of science, integrated liberal studies, literature (including comparative literature), music (including applied music), philosophy, communication arts, studies of cultures—e.g., African studies, East Asian studies, Hebrew and Semitic studies, South Asian studies, Scandinavian studies.

## REQUIREMENTS FOR GRADUATION

The bachelor of science (B.S.) degrees granted by the School of Human Ecology require a minimum total of 120 credits, with a minimum of 25 credits in the school. To remain in good academic standing, students must maintain a minimum GPA of 2.0. A 2.0 cumulative GPA must be earned by the end of the senior year in order to be recommended for a B.S. degree.

The School of Human Ecology will graduate a student at the end of the semester (spring, summer, or fall) in which all SoHE major requirements are complete. Graduation will not be postponed for incomplete additional major(s), certificate program (s), specialization(s), study abroad, or honors program(s). It is the student's responsibility to prepare for graduation and to ensure that all graduation requirements have been met. Students expecting to graduate and/or participate in commencement exercises should declare their intent through the My UW Student Center in accordance with campus deadlines.

## RESOURCES

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience - from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their

educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late in the fall semester. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Student Academic Affairs & Career Development Office. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) (333 East Campus Mall; 608-262-3060).

## HONORS

### DEAN'S HONOR LIST

At the end of each semester the names of all students with a grade point average of 3.25 or higher in at least 12 graded credits for that semester will be included on the Dean's Honor List. Students earning a grade point average of 3.75 or higher will be given the recognition of Dean's High Honors. A notation of "Dean's Honor List" or "Dean's High Honors" will be entered on the student's transcript.

### GRADUATION WITH DISTINCTION

"Graduation with Distinction" will appear on the transcripts of students who have earned a cumulative grade point average that places them *within the top 20 percent* of students graduating that term in their school or college with 60 credits or more at the University of Wisconsin–Madison.

Students *in the top 5 percent* will receive the designation "Graduation with Highest Distinction." The Office of the Registrar determines whether students have met these criteria. Notations citing graduation distinction will be made on the transcript.

### HONORS PROGRAM

The School of Human Ecology Honors Program provides an opportunity for students to pursue coursework in greater depth than is possible in regular courses. The honors program is a school-wide program open

to students regardless of major. Honors program members are eligible to enroll in courses offered for honors-only credit, to participate in campuswide activities for honors program students, and to apply for special research-funding opportunities. Upon completion of the honors program requirements and degree requirements, the student will receive an honors degree from the School of Human Ecology. The transcript for a SoHE honors student who does not complete all honors degree requirements will have the honors designation next to honors courses completed.

For additional information about the Honors Program including admission, requirements, credits, and honors thesis, contact the Student Academic Affairs & Career Development Office.

## CIVIL SOCIETY AND COMMUNITY STUDIES

The Department of Civil Society and Community Studies offers a bachelor of science degree in community and nonprofit leadership and a Ph.D. in human ecology: civil society and community research. The community and nonprofit leadership major prepares its graduates for careers in community and nonprofit settings, graduate school, and post-baccalaureate service-oriented programs. Academic requirements include specialized emphases in human ecology; general studies in humanities, social sciences and natural sciences; and coursework focused on community impact and social change processes. Students may also engage in complementary coursework, undergraduate certificates, or additional undergraduate majors.

## DEGREES/MAJORS/CERTIFICATES

- Community and Nonprofit Leadership, B.S. (p. 1514)

## PEOPLE

Professors Flanagan, Jasper; Associate Professors Bakken, Christens; Assistant Professors Alexander, Gaddis, Horowitz, Sarmiento, Sparks; Faculty Associate Maguire

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## COMMUNITY AND NONPROFIT LEADERSHIP, B.S.

Through academic study, community engagement, and applied research, Community and Nonprofit Leadership (CNPL) undergraduate students develop into competent, caring professionals interested in community-based change and the expanding nonprofit sector. In smaller, inclusive, project-based courses, CNPL students collaborate with each other and community partners, gaining practical experience and making a difference through their coursework. The CNPL bachelor of science degree prepares its graduates for careers in community and nonprofit settings, graduate school (in law, policy, community health, etc.), and post-baccalaureate service-oriented programs (such as Peace Corps, AmeriCorps, City Year, etc.), enabling them to create, lead, and support innovative community-based initiatives that change lives and make the

world a better place. Their work and advanced study address human, family, and civil society issues such as: food and environmental justice, homelessness and rights to housing, health equity, gender equality, racial justice, community and leadership development, community organizing, advocacy, and more.

CNPL majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

## HOW TO GET IN

### PROSPECTIVE UW-MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Students who indicate interest in the community and nonprofit leadership (CNPL) major on their UW–Madison application will be admitted to the CNPL major upon admittance to the university. In addition, students may indicate interest in CNPL when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW–MADISON STUDENTS

First-year students in good academic standing and first-semester transfer students may declare the CNPL major upon request. All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by attending a Becoming a SoHE Student Workshop (<https://sohe.wisc.edu/prospective-students/prospective-students/becoming-sohe-student-workshops>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>) for application information and the October and February deadlines.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

### COMMUNITY AND NONPROFIT LEADERSHIP REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum checksheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		
<i>Statistics</i>		3-4
Select one of the following:		
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<i>Arts and Humanities</i>		
	Literature	3
	Humanities	6
	<i>Social Science</i>	9
	<i>Physical, Biological and Natural Science</i>	9
	<i>Human Ecology Breadth</i>	6
	Select six credits of Human Ecology courses from CNSR SCI, DS, HDFS, or INTER-HE.	
<b>Community and Nonprofit Leadership Major Requirements</b>		
<i>Community and Nonprofit Leadership Core Courses</i>		
CSCS 125	Community and Social Change	3
CSCS 300	Nonprofit Sector: Overview and Foundations	3
CSCS 345	Strategic Planning for Nonprofit Organizations	3
CSCS 460	Leadership and Management of Nonprofit Organizations	3

CSCS 570	Community Based Research and Evaluation	3
CSCS 350	Community Issues and Service Learning	3
<i>Community and Nonprofit Leadership Depth Courses</i>		
Complete 9 credits from any other Civil Society & Community Studies courses		9
CSCS courses ( <a href="http://guide.wisc.edu/courses/cscs">http://guide.wisc.edu/courses/cscs</a> )		
<i>Professional Development</i>		
CSCS 254	Community & Nonprofit Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
CSCS 601	Internship	3
<b>Electives</b>		
Select electives to fulfill degree requirement of 120 credits		
Total Credits		68-69

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Ecological perspectives on community and society.** Articulate and apply an ecological perspective at discrete levels of analysis (individual, group, community, and society).
- Civic literacy and the public sphere.** Assess the major trends in civil society recognizing the influence and interconnectedness across the major sectors of society and exhibit strong capacity for sustained, high impact participation in civic life.
- Identity, diversity, and social justice.** Recognize well-being and social justice as relational and position, applying these principles in community organizing and empowerment.
- Organizational management and professional development.** Demonstrate entry-level knowledge and skills relevant to nonprofit and community organizations and exhibit the practices of a lifelong learner.

- Research, analysis, and communication.** Vet and/or generate high quality data, perform relevant analyses, and share results with target audiences using oral, written, and visual communication techniques.
- Leadership, ethics, and well-being.** Recognize the value of being a reflective, ethical leader who cultivates others' strengths and leadership capabilities, while exhibiting self-care and care for others.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Flanagan, Jasper; Associate Professors Bakken, Christens; Assistant Professors Alexander, Gaddis, Horowitz, Sarmiento, Sparks; Faculty Associate Maguire

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## CONSUMER SCIENCE

The Department of Consumer Science studies interactions among consumers, business, and government in order to advance the well-being of consumers, families, and communities. The department is multi-disciplinary, including study in economics, finance, sociology, psychology, marketing, and public affairs. The Department of Consumer Science offers two undergraduate degree programs: personal finance,

and retailing and consumer behavior. Both courses of study focus broadly on the economic well-being of consumers and society. The department also offers M.S. and Ph.D. degrees in human ecology: consumer behavior and family economics.

## DEGREES/MAJORS/CERTIFICATES

- Personal Finance, B.S. (p. 1517)
- Retailing and Consumer Behavior, B.S. (p. 1520)

## PEOPLE

Professors Bartfeld, Shim, Wong, Zepeda; Associate Professor Collins, Robb; Assistant Professors Addo, Ashton, Warmath; Faculty Associates Lepe, Murray, O'Brien, Olive, Whelan

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## PERSONAL FINANCE, B.S.

Personal finance looks at economics from a people perspective, developing financial experts who can help individuals and families live more secure lives. This bachelor of science program is registered with the Certified Financial Planner® Board of Standards. The coursework is interdisciplinary with an emphasis on financial management and the economic well-being of individuals and families. Within the personal finance program, students may complete one of two options: financial planning or consumer finance.

The financial planning option is the more traditional personal finance program leading to careers in counseling, coaching, and wealth management. Graduates of the financial planning option leave fully prepared to sit for the prestigious Certified Financial Planner® exam, which SoHE students pass well above the national average.

Graduates of the consumer finance option are prepared to work in financial product development, financial technology, and consumer behavior.

Personal finance majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

## HOW TO GET IN

### PROSPECTIVE UW–MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Students who indicate interest in the personal finance major on their UW–Madison application will be admitted to the personal finance major upon admittance to the university. In addition, students may indicate interest in personal finance when registering for Student Orientation, Advising, and Registration (SOAR).

## CURRENT UW–MADISON STUDENTS

First-year students in good academic standing and first-semester transfer students may declare the personal finance major upon request. All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by attending a Becoming a SoHE Student Workshop (<https://sohe.wisc.edu/prospective-students/prospective-students/becoming-sohe-student-workshops>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>) for application information and the October and February deadlines.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### PERSONAL FINANCE: FINANCIAL PLANNING CONCENTRATION REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum checksheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		

<b>Math</b>		
MATH 112	Algebra	3
Or higher (not MATH 130 or 141) unless exempt through placement exam		
<b>Statistics</b>		3-4
Select one of the following:		
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<b>Arts and Humanities</b>		
Literature		3
Humanities		6
<b>Social Science</b>		
ECON 101	Principles of Microeconomics	4
ECON 102	Principles of Macroeconomics	3-4
Select 6 credits designated Social Science breadth		6
<b>Physical, Biological and Natural Science</b>		9
<b>Human Ecology Breadth</b>		3
Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.		
<b>Personal Finance Courses</b>		
CNSR SCI 251	Financial Services Leadership Symposium <sup>1</sup>	1
CNSR SCI 275	Consumer Finance	3
CNSR SCI 201	Consumer Research & Analysis	3
<b>Financial Planning Concentration Courses</b>		
CNSR SCI 627	Advanced Consumer Finance	3
CNSR SCI 635	Estate Planning for Financial Planners	3
CNSR SCI 675	Family Financial Counseling	3
R M I 300	Principles of Risk Management	3
R M I 620	Employee Benefits Management	3
ACCT I S 300	Accounting Principles	3
or ACCT I S 100	Introductory Financial Accounting	
ACCT I S/LAW 329	Taxation: Concepts for Business and Personal Planning	3
<b>Consumer Science Depth</b>		
Select 6 credits from TWO different Consumer Science Depth Option Areas:		6
<b>I. Multidisciplinary-Applied Research</b>		
CNSR SCI 301	Advanced Consumer Analytics	
CNSR SCI 527	Consumer Spending and Saving Over the Lifecycle	
CNSR SCI 579	Consumer Policy Analysis	
<b>II. Promoting Well-Being</b>		
CNSR SCI/ RELIG ST 173	Consuming Happiness	

CNSR SCI 273	Finances & Families	
CNSR SCI 340	Building Financial Assets and Capability for Vulnerable Families	
CNSR SCI 355	Financial Coaching	
<b>III. Ethics, Leadership, and Policy</b>		
CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 360	Sustainable and Socially Just Consumption	
CNSR SCI/ HDFS 465	Families & Poverty	
CNSR SCI 477	The Consumer and the Market	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	
CNSR SCI 575	Family Economics and Public Policy	
CNSR SCI 657	Consumer Behavior	
<b>High Impact Practice</b>		
CNSR SCI 601	Consumer Science Internship	3
<b>Electives</b>		
Select electives to bring degree credit total to 120		
Total Credits		77-79

<sup>1</sup> CNSR SCI 251 Financial Services Leadership Symposium may be repeated for up to 2 credits. The additional credit will be counted as an elective.

## PERSONAL FINANCE: CONSUMER FINANCE CONCENTRATION REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum checksheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		
<b>Math</b>		
MATH 112	Algebra	3
Or higher (not MATH 130 or 141) unless exempt through placement exam		
<b>Statistics</b>		3-4
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<b>Arts and Humanities</b>		

Literature		3
Humanities		6
<i>Social Science</i>		
ECON 101	Principles of Microeconomics	4
ECON 102	Principles of Macroeconomics	3-4
Select 6 credits designated Social Science Breadth		6
<i>Physical, Biological or Natural Science</i>		
<i>Human Ecology Breadth</i>		3
Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.		
<b>Personal Finance Courses</b>		
CNSR SCI 251	Financial Services Leadership Symposium <sup>1</sup>	1
CNSR SCI 275	Consumer Finance	3
CNSR SCI 201	Consumer Research & Analysis	3
<b>Consumer Finance Concentration Courses</b>		
CNSR SCI 477	The Consumer and the Market	3
CNSR SCI 657	Consumer Behavior	3
CNSR SCI 257	Introduction to Retailing	2
CNSR SCI 555	Consumer Strategy & Evaluation	3
<b>Consumer Science Depth</b>		
Select 12 credits from THREE different Consumer Science Depth Option Areas and on additional course from Depth Option I, II, or III:		12
<i>I. Multidisciplinary-Applied Research</i>		
CNSR SCI 301	Advanced Consumer Analytics	
CNSR SCI 527	Consumer Spending and Saving Over the Lifecycle	
CNSR SCI 579	Consumer Policy Analysis	
<i>II. Promoting Well-Being</i>		
CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 273	Finances & Families	
CNSR SCI 340	Building Financial Assets and Capability for Vulnerable Families	
CNSR SCI 355	Financial Coaching	
<i>III. Ethics, Leadership, and Policy</i>		
CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 360	Sustainable and Socially Just Consumption	
CNSR SCI/ HDFS 465	Families & Poverty	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	
CNSR SCI 575	Family Economics and Public Policy	
<b>High Impact Practice</b>		
CNSR SCI 601	Consumer Science Internship	3
<b>Electives</b>		
Select electives to bring degree credit total to 120		
Total Credits		73-75

<sup>1</sup> CNSR SCI 251 Financial Services Leadership Symposium may be repeated for up to 2 credits. The additional credit will be counted as an elective.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will invoke interdisciplinary and collaborative approaches to understand the interactions between individuals and their social and environmental contexts.
2. Students will demonstrate the ability to harness, analyze and interpret relevant data for making real world decisions.
3. Students will acquire professional and life skills related to workplace communication, teamwork, active listening and adapting to technology.
4. Students will demonstrate an understanding of consumer financial behavior and the role of income, savings, credit, planning and benefits.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their

educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Bartfeld, Shim, Wong, Zepeda; Associate Professor Collins, Robb; Assistant Professors Addo, Ashton, Warmath; Faculty Associates Lepe, Murray, O'Brien, Olive, Whelan

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## RETAILING AND CONSUMER BEHAVIOR, B.S.

Retailing and consumer behavior (RCB) leverages technology and research to understand and improve the global customer experience. This bachelor of science degree blends business and analytics with creativity, trend tracking, and technology. Students develop the skills to work in an industry that powers economies and offers ample employment opportunities, including online retailing and social commerce professions. Our experienced faculty guide RCB students through an inspiring and flexible curriculum that prepares them for careers in a dynamic and globally-focused industry.

Explore the world of commerce and technology from a people-first perspective. As a RCB major you'll learn to research, improve, and better understand the global customer experience with the support and guidance of SoHE faculty, a team of industry experts and researchers. Coursework integrates analytics and statistics with retailing, consumer science, and business courses.

SoHE's RCB graduates work for diverse and rapidly growing retailing companies around the globe. Technology and management jobs have been in high demand for several years and are only expected to continue their rapid growth.

RCB majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

## HOW TO GET IN

### PROSPECTIVE UW–MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Students who indicate interest in the retailing and consumer behavior major on their UW–Madison application will be admitted to the retailing and consumer behavior major upon admittance to the university. In addition, students may indicate interest in retailing and consumer behavior when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW–MADISON STUDENTS

First-year students in good academic standing and first-semester transfer students may declare the retailing and consumer behavior major upon request. All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by attending a Becoming a SoHE Student Workshop (<https://sohe.wisc.edu/prospective-students/prospective-students/becoming-sohe-student-workshops>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>) for application information and the October and February deadlines.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.



**Requirements Detail**

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

## RETAILING & CONSUMER BEHAVIOR REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum check sheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		
<i>Math</i>		
MATH 112	Algebra	3
Or higher (not MATH 130 or 141) unless exempt through placement exam		
<i>Statistics</i> 3-4		
Select one of the following:		
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		
ECON 101	Principles of Microeconomics	4
Select 6 credits designated Social Science breadth		6
<i>Physical, Biological and Natural Science</i>		9
<i>Human Ecology Breadth</i>		3
Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.		
<b>Consumer Science Courses</b>		
CNSR SCI 250	Retail Leadership Symposium <sup>1</sup>	1
CNSR SCI 257	Introduction to Retailing	2

CNSR SCI 201	Consumer Research & Analysis	3
CNSR SCI 275	Consumer Finance	3
CNSR SCI 657	Consumer Behavior	3
CNSR SCI 564	Retail Financial Analysis	3
CNSR SCI 555	Consumer Strategy & Evaluation	3

**Accounting Course**

Select one course from the following:		3
ACCT I S 300	Accounting Principles	
ACCT I S 100	Introductory Financial Accounting	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	

**Retailing and Consumer Behavior Depth**

Select one course from the following:		3
CNSR SCI 561	Retail Channel Strategy & Omni-Channel Retailing	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	

**Consumer Science Depth**

Select 6 credits from TWO different Consumer Science Depth Option Areas (Not also used above in the Retailing and Consumer Behavior Depth category):		6
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*I. Multidisciplinary-Applied Research*

CNSR SCI 301	Advanced Consumer Analytics	
CNSR SCI 527	Consumer Spending and Saving Over the Lifecycle	
CNSR SCI 579	Consumer Policy Analysis	

*II. Promoting Well-Being*

CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 273	Finances & Families	
CNSR SCI 340	Building Financial Assets and Capability for Vulnerable Families	
CNSR SCI 355	Financial Coaching	

*III. Ethics, Leadership, and Policy*

CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 360	Sustainable and Socially Just Consumption	
CNSR SCI/ HDFS 465	Families & Poverty	
CNSR SCI 477	The Consumer and the Market	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	
CNSR SCI 575	Family Economics and Public Policy	

**High Impact Practice**

CNSR SCI 603	Retailing Internship	3
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**Electives**

Select electives to bring degree credit total to 120		
Total Credits		70-71

<sup>1</sup> CNSR SCI 250 Retail Leadership Symposium may be repeated for up to three credits. Credits in addition to the one required credit will be counted as elective credits.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Students will invoke interdisciplinary and collaborative approaches to understand the interactions between individuals and their social and environmental contexts.
2. Students will demonstrate the ability to harness, analyze and interpret relevant data for making real world decisions.
3. Students will acquire professional and life skills related to workplace communication, teamwork, active listening and adapting to technology.
4. Students will demonstrate an understanding of the global retail industry and how retailers can enhance consumer well-being.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Bartfeld, Shim, Wong, Zepeda; Associate Professor Collins, Robb; Assistant Professors Addo, Ashton, Warmath; Faculty Associates Lepe, Murray, O'Brien, Olive, Whelan

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## DESIGN STUDIES

Design Studies offers multidisciplinary education in design and research of interior design environments and textiles and apparel design, through participation in formal classroom instruction and ongoing research and scholarly endeavors. Students benefit from a broad-based program and faculty specializing in areas such as design visualization, environment and behavior studies, history of interiors and textiles, interior architecture, material culture, textile and apparel design, and textile science.

Two undergraduate degree majors are offered: interior architecture, and textiles and fashion design. There is also a human ecology: design studies graduate program, offering M.S., MFA, and Ph.D. degrees.

Student internships in both undergraduate majors augment campus course offerings, providing students with unique learning opportunities in their chosen fields. Design studies majors have access to design resources: studios, a computer laboratory equipped to support design work; textile laboratories including a testing room; an interior architecture resource room, the Design Gallery, the Helen Louise Allen Textile Collection, and the Ruth Ketterer Harris Library. In addition, a strong collaborative environment exists for students and faculty interaction with other departments, institutes, and museums on the campus and other design programs within the state and country.

## DEGREES/MAJORS/CERTIFICATES

- Interior Architecture, B.S. (p. 1523)
- Textiles and Fashion Design, B.S. (p. 1525)

## PEOPLE

Professors Angus, Dong, Nelson, Rengel, Sarmadi; Associate Professors Hark, Kallenborn, Shin; Assistant Professors Fairbanks, Penick, Ponto, Thorleifsdottir; Faculty Associates Kurutz, Sager

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## INTERIOR ARCHITECTURE, B.S.

The undergraduate major in interior architecture is a four-year professional program accredited by the Council for Interior Design Accreditation (CIDA) and leading to the Bachelor of Science degree in Interior Architecture. The program develops students' creativity in the design and planning of interior spaces by emphasizing the process and communication of design. Students learn to integrate the art of design with the social sciences concerning the interaction of people and their environment, the history of design, and the physical sciences relating to the effects of materials on the physical health and comfort of inhabitants. Insight into professional practice is enhanced through internship experiences.

Faculty maintain scholarly programs of study in design and research that form the basis of the graduate program and enrich the undergraduate program through course work, design review, and student mentoring.

Course content helps students develop verbal and visual communication skills with exposure to both residential and commercial interiors. In addition, courses in art history, history of interiors, engineering, and art are required. A final portfolio is required before graduation. Studio spaces for student use, a resource center containing catalogs and samples, plus a lighting demonstration area and computer laboratory provide physical support for the interior architecture curriculum.

## HOW TO GET IN

### PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Freshmen should declare their intention to pursue the interior architecture (IA) major when they apply for admission to UW-Madison. In addition, students may indicate interest in the IA major when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW-MADISON STUDENTS

#### PHASE I

Students interested in entering Phase I must have a minimum cumulative GPA of 2.75. Students who meet this requirement should meet with an advisor to declare the major as early in their academic career as possible.

Transfer students may take longer to complete their degree than students entering the program as freshmen, as they too must complete both Phase I and Phase II, which contain specialized courses that must be taken sequentially.

#### PHASE II

Advancement into Phase II is competitive and involves an application process that occurs each spring semester. Admission is based upon evaluation of a student's performance in Phase I of the curriculum. This includes the Design Core: DS 120, DS 220, DS 130, Art 112, and M E 160 and a minimum of 12 general studies credits selected from the following: Math 112 or Math 114; Communication A; Literature; Econ 101 or AAE 215; Psych 202; Anthropology or Sociology; Physical Science; and Biological Science.

After completing Phase I of the program and upon acceptance into Phase II, all IA students must purchase a laptop computer based on minimum hardware specification and software licenses determined by the department and updated regularly. Students also have the option, but are not required, to purchase a laptop computer before completion of Phase I of the program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### INTERIOR ARCHITECTURE REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum checksheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		

<b>Arts and Humanities</b>		
Literature		3
Choose one of the following:		3
Any Art History course ( <a href="http://guide.wisc.edu/courses/art_hist">http://guide.wisc.edu/courses/art_hist</a> )		
DS 264/ANTHRO/ Dimensions of Material Culture ART HIST/ HISTORY/ LAND ARC DS 264		
ART 112	Drawing I	3
or ART 212	Drawing Methods & Concepts	
<b>Social Science</b> 9		
<b>Physical, Biological and Natural Science</b> 9		
<b>Human Ecology Breadth</b> 3		
Select one Human Ecology course from CNSR SCI, CSCS, HDFS, or INTER-HE		
<b>Interior Architecture Major Requirements</b>		
<i>Phase I: Design Core</i>		
DS 120	Design: Fundamentals I	3
DS 220	Design: Fundamentals II	3
DS 130	Introduction to Interior Architecture	3
M E 160	Architectural Graphics	3
<i>Interior Architecture Studio Core</i>		
DS 222	Interior Design I	4
DS 322	Interior Design II	4
DS 622	Interior Design III	4
DS 623	Interior Design IV	4
DS 501	Special Topics (Select topic: Interior Design V)	3
<i>Content Area Courses</i>		
DS 221	Person and Environment Interactions	3
DS 223	Interior Architectural Design	3
DS 224	Interior Materials and Finishes	3
DS 241	Visual Communication I	3
DS 242	Visual Communication II	3
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3
DS 451	Color Theory and Technology	3
DS 561	Textiles: Specifications and End Use Analysis	3
DS 501	Special Topics (Select topic: Portfolio Preparation)	2
DS 501	Special Topics (Select topic: Lighting, Thermal Comfort and Acoustics: POE)	3
DS 624	Portfolio Preparation	3
<i>Professional Development</i>		
DS 252	Design Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
DS 601	Internship	3

<b>Design Focus</b> <sup>1</sup>	6
Select 6 credits in consultation with your SoHE academic advisor.	

**Electives**

Select electives to meet minimum total of 120 degree credits

<sup>1</sup> Design Focus courses are intended to be an opportunity for students to develop more depth and uniqueness to their course of study. See Design Focus course list below. Please work with your SoHE academic advisor to seek approval for coursework taken outside of Design Studies.

**Design Studies course list**

Code	Title	Credits
DS 101	Introduction to Textile Design	3
DS 227	Textile Design: Printing and Dyeing I	3
DS 251	Textile Science	3
DS 264/ANTHRO/ ART HIST/HISTORY/ LAND ARC DS 264	Dimensions of Material Culture	4
DS 341	Design Thinking for Transformation	3
DS 361	Design-Related International Experience	1-6
DS 501	Special Topics (varies by semester)	1-3
DS 579/ COMP SCI DS 579	Virtual Reality	3
DS 633	Advanced Interior and Architectural Design Visualization	3
DS 639/ LAND ARC DS 639	Culture and Built Environment	3

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

<b>Total Degree</b>	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
<b>Quality of Work</b>	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Interior architecture students will have grounding in the history and theory relevant to the built environment and human behavior.
2. Interior architecture students will have intellectual skills for inquiry, creative thinking, and critical analysis.
3. Interior architecture students will have professional skills that prepare them for applying what they have learned to create new knowledge and solve problems in a real world setting.
4. Interior architecture students will be able to apply the design process to identify and explore complex problems and generate creative solutions that optimize the human experience within the interior environment. This includes the ability to apply research and the principles and theories of Design to their solutions.
5. Interior architecture students will be able to apply their knowledge of building materials and systems, building construction, and industry specific codes, standards and guidelines in order to enhance the health, safety, welfare and performance of building occupants.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Angus, Dong, Nelson, Rengel, Sarmadi; Associate Professors Hark, Kallenborn, Shin; Assistant Professors Fairbanks, Penick, Ponto, Thorleifsdottir; Faculty Associates Kurutz, Sager

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## TEXTILES AND FASHION DESIGN, B.S.

Textiles and Fashion Design (TFD) is a unique hybrid program that combines a deep understanding of materials and techniques with an academic base of history, science, and contemporary design. The heart of the major lies in the hands-on studio courses where students learn to weave, dye, print, construct, pattern, illustrate, design and innovate. Going beyond technique, TFD faculty encourage students to intuitively make, analyze and revise, leading to discovery and creative problem solving. Special topics focus on environmental, economic, and cultural sustainability as well as technology and non-traditional entrepreneurship.

Coursework in the TFD program is enhanced by visiting lecturers, special projects with industry partners, and the on-site Helen Louise Allen Textile Collection. Upper-level students in the major are given the opportunity to professionally show their work to a public audience in the fall annual student showcase and the spring fashion show.

Our award-winning students are both highly creative and superb craftspeople engaged in addressing real world problems and offering sustainable solutions.

### TFD

Our bachelor of science degree (B.S.) in textiles and fashion design (TFD) highlights craft technique as a pathway to creative practice and prepares students for an exciting creative career in design. Studies can focus primarily in textiles or in fashion, but students are encouraged to experiment in both areas. The program emphasizes interdisciplinary partnerships and encourages learning by doing in studios, outreach projects, and sustainable practices.

Through capstone and thesis experiences in the final year, students are given time and mentoring to create and present their own unique body of work.

### TFD-FIT

For those leaning toward an industry career, our program gives students the option to apply to spend their senior year at Fashion Institute of Technology (<http://www.fitnyc.edu>) (FIT) in New York City, the hub of the textile and fashion trade. The FIT experience provides students with industry specific skills which, when paired with the creative liberal arts background, makes our graduates highly desirable and often recruited by industry leaders. Students apply to FIT in their junior year. If accepted by FIT, they participate in a visiting student program in one area of focus: Fashion Design, Textile Surface Design, Accessory Design, or Textile Development and Marketing.

Upon graduation, students who attend FIT are awarded a bachelor of science (B.S.) degree from the University of Wisconsin-Madison in textiles and fashion design and an associate of applied science (A.A.S.)

degree from FIT. Students attending FIT who are considered Wisconsin nonresidents continue to pay out-of-state tuition, even if they reside in the state of New York.

## HOW TO GET IN

### PROSPECTIVE UW–MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Freshmen should declare their intention to pursue the Textiles and Fashion Design (TFD) major when they apply for admission to UW–Madison. In addition, students may indicate interest in the TFD major when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW–MADISON STUDENTS

The program is designed to be completed in four academic years.

On-campus transfer students must have a 2.75 grade point average in order to enter the program. For transfer students, sequential courses and courses taught only once a year should be taken into account when calculating time toward completion of the degree, as graduation time may be extended.

Students intending to complete their final year of study at FIT must complete an additional application. Only students with a 3.0 or higher GPA in December of their third year in the program are eligible to apply for admission to FIT.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### TEXTILES AND FASHION DESIGN GENERAL EDUCATION AND MAJOR REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum checksheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

All Textiles and Fashion Design students complete the School of Human Ecology requirements listed below. Then, students complete the Textiles and Fashion Design requirements OR the Textiles and Fashion Design-FIT requirements.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		
<i>Arts and Humanities</i>		
	Literature	3
	Humanities	6
	<i>Social Science</i>	9
	<i>Physical, Biological and Natural Science</i>	9
	Human Ecology Breadth	3
	Select one Human Ecology course from CNSR SCI, CSCS, HDF5, or INTER-HE	

### TEXTILES AND FASHION DESIGN

Code	Title	Credits
<b>Design Core</b>		
DS 101	Introduction to Textile Design	3
DS 120	Design: Fundamentals I	3
DS 153	Fabric and Apparel Structures I	3
DS 251	Textile Science	3
DS 355 or DS 430	History of Fashion, 1400-Present History of Textiles	3

#### Textiles and Fashion Design Focus Area

Choose either the Fashion Sequence or the Textiles Sequence	12
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*Fashion Sequence (must be taken in this order)*

DS 154	Processes for Apparel Design: Clothing Construction II	
DS 253	Patternmaking for Apparel Design	
DS 210	Fashion Illustration	
DS 225	Apparel Design I	

**Textiles Sequence (must be taken in this order)**

DS 227	Textile Design: Printing and Dyeing I	
DS 228	Textile Design: Structural Enrichment I	
DS 229/ ART DS 229	Textile Design: Weaving I	
DS 327	Textile Design: Manual/Computer Generated Imagery and Pattern	

Choose three additional Textiles & Fashion Design courses for 9 total credits 9

**Professional/Career Preparation**

DS 252	Design Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
CNSR SCI 321	Financial Life Skills for Life After Graduation	1

**Depth Courses**

Choose 15 credits from the following courses: 15

Other Textiles and Fashion Design Courses (300 level and above)		
DS 341	Design Thinking for Transformation	
DS 501	Special Topics (Collection Development)	
DS 529	Building a Sustainable Creative Practice	
DS 501	Special Topics (Design and Fashion Event Practicum)	
DS 561	Textiles: Specifications and End Use Analysis	
M H R 322	Introduction to Entrepreneurial Management	
CNSR SCI 257	Introduction to Retailing	
CNSR SCI 555	Consumer Strategy & Evaluation	
CNSR SCI 561	Retail Channel Strategy & Omni-Channel Retailing	
CNSR SCI 562	The Global Consumer	
CNSR SCI 657	Consumer Behavior	
ART 469	Interdisciplinary Studies in the Arts	

**Capstone Experience**

DS 601	Internship	3
DS 691	Senior Thesis	3

**TEXTILES AND FASHION DESIGN: FIT**

Code	Title	Credits
<b>Design Core</b>		
DS 101	Introduction to Textile Design	3
DS 120	Design: Fundamentals I	3
DS 153	Fabric and Apparel Structures I	3
DS 251	Textile Science	3

DS 355 or DS 430	History of Fashion, 1400-Present History of Textiles	3
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**Textiles and Fashion Design Focus Area**

Choose either the Fashion Sequence or the Textiles Sequence 12

**Fashion Sequence (must be taken in this order)**

DS 154	Processes for Apparel Design: Clothing Construction II	
DS 253	Patternmaking for Apparel Design	
DS 210	Fashion Illustration	
DS 225	Apparel Design I	

**Textiles Sequence (must be taken in this order)**

DS 227	Textile Design: Printing and Dyeing I	
DS 228	Textile Design: Structural Enrichment I	
DS 229/ ART DS 229	Textile Design: Weaving I	
DS 327	Textile Design: Manual/Computer Generated Imagery and Pattern	

Choose three additional Textiles & Fashion Design courses for 9 total credits 9

**Professional/Career Preparation**

DS 252	Design Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
CNSR SCI 321	Financial Life Skills for Life After Graduation	1

**Fashion Institute of Technology FIT**

Visiting Student Program Courses 30

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

1. School of Human Ecology students will have grounding in the history and theory relevant to the human ecological perspective.

2. School of Human Ecology students will have intellectual skills for inquiry, creative thinking, and critical analysis.
3. School of Human Ecology students will have professional skills that prepare them for applying what they have learned to create new knowledge and solve problems in a real world setting.
4. Textiles and Fashion Design students will have the ability to move beyond technique, taking creative risks to develop conceptually cohesive work through advanced knowledge of materials, processes, and an understanding of design principles.
5. Textiles and Fashion Design students will have the ability to participate in professional discussions and critique that are informed by foundational knowledge of fashion and/or textile history, theory, and science.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Angus, Dong, Nelson, Rengel, Sarmadi; Associate Professors Hark, Kallenborn, Shin; Assistant Professors Fairbanks, Penick, Ponto, Thorleifsdottir; Faculty Associates Kurutz, Sager

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## HUMAN DEVELOPMENT AND FAMILY STUDIES

The Department of Human Development and Family Studies (HDFS) serves undergraduate and graduate students by offering a bachelor of science in human development and family studies and a Ph.D. in human ecology: human development and family studies. Students and faculty in HDFS are dedicated to improving the quality of life for children, adolescents, and adults by discovering, integrating, applying and disseminating knowledge about lifespan human development, relationships, families, and communities, all in their larger social contexts. The application of human ecological and interdisciplinary perspectives to solve societal problems and strengthen the well-being of children, adults, and families is a distinctive feature of the department.

## DEGREES/MAJORS/CERTIFICATES

- Human Development and Family Studies, B.S. (p. 1528)

## PEOPLE

Professors Poehlmann-Tynan, Raison, Roberts, Small; Associate Professors Dilworth-Bart, Duncan, Halpern-Meekin, Hartley, Kirkorian, Nix, Papp; Assistant Professor Litzelman; Faculty Associates Burkholder, Levchenko

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## HUMAN DEVELOPMENT AND FAMILY STUDIES, B.S.

The undergraduate major in human development and family studies (HDFS) offers specialized courses in human development from infancy through old age, couples and family relationships, research methods, policymaking, parent-child relations, family health and well-being, parent education and support, and ethnic and cultural diversity in families. In addition to coursework, all students engage in a 150-hour, semester-long internship or high-impact learning experience in a professional setting related to their major and career goals. These settings include community mental health programs, early childhood education, legislative offices, health care agencies, research labs, criminal justice systems, child and family life education, and community-based social justice programs.

The major prepares students for careers in human and family service organizations and for graduate or professional school in a variety of fields including health care, education, family law, counseling, occupational therapy, program evaluation, physical therapy, case management, and the child life profession.



## HOW TO GET IN

### PROSPECTIVE UW–MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

Students who indicate interest in the human development and family studies (HDFS) major on their UW–Madison application will be admitted to the HDFS major upon admittance to the university. In addition, students may indicate interest in HDFS when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW–MADISON STUDENTS

First-year students in good academic standing and first-semester transfer students may declare the HDFS major upon request. All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by attending a Becoming a SoHE Student Workshop (<https://sohe.wisc.edu/prospective-students/prospective-students/becoming-sohe-student-workshops>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology>) for application information and the October and February deadlines.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### HUMAN DEVELOPMENT AND FAMILY STUDIES REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. Curriculum check sheets from previous academic years are available online (<https://sohe.wisc.edu/prospective-students/advising/curriculum-checksheets>). This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>School of Human Ecology Requirements</b>		
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		
PSYCH 202	Introduction to Psychology	3-4
Select 6 credits designated Social Science breadth		6
<i>Physical, Biological and Natural Science</i>		
Human Ecology Breadth		3
	Select a Human Ecology course from CNSR SCI, CSCS, DS, or INTER-HE	
<b>Human Development and Family Studies Major Requirements</b>		
<b>Learning Outcome 1: Lifespan Human Development</b>		
<i>Earlier Lifespan</i>		
Select one of the following:		3
HDFS 362	Development of the Young Child	
ED PSYCH 320	Human Development in Infancy and Childhood	
PSYCH 460	Developmental Psychology	
<i>Later Lifespan</i>		
HDFS 363	Development from Adolescence to Old Age	3
<b>Learning Outcome 2: Family and Community Diversity</b>		
Select one of the following:		3
HDFS/ CNSR SCI 465	Families & Poverty	
HDFS 474	Racial Ethnic Families in the U.S.	
HDFS/ AFROAMER/ SOC WORK 521	African American Families	
<b>Learning Outcome 3: Internal Family Processes</b>		
Select one of the following:		3
HDFS 471	Parent - Child Relations	
HDFS 516	Stress and Resilience in Families Across the Lifespan	
HDFS 517	Couple Relationships	
<b>Learning Outcome 4: Social Institution Influences</b>		
Select one of the following:		3
HDFS 469	Family and Community Influences on the Young Child	
HDFS 535	A Family Perspective in Policymaking	

HDFS/COM ARTS/ Mass Media and Youth  
JOURN/LSC 616

**Learning Outcome 5: Assessment, Prevention, Intervention, and Outreach**

Select one of the following: 3

HDFS/INTER-HE 650	Parent Education and Support Programs	
HDFS 663	Developmental and Family Assessment	

**Learning Outcome 6: Understanding Social Science Research**

*Statistics*

Select one of the following: 3-4

SOC/C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	

*Research Methods*

Select one of the following:

HDFS 425	Research Methods in Human Development and Family Studies	3
PSYCH 225	Research Methods	
SOC/C&E SOC 357	Methods of Sociological Inquiry	

**Professional Development**

INTER-HE 202	SoHE Career & Leadership Development	1
HDFS 501	Special Topics (Select Special Topic: HDFS Leadership Symposium)	1
HDFS 601	Internship	3
Additional high-impact practice course to be approved by the student's SoHE academic advisor <sup>1</sup>		3

**Electives**

Select courses to bring degree credit total to 120

Total Credits 62-64

<sup>1</sup> Examples include service learning course, second internship or research experience, study abroad experience, select upper-level HDFS courses, or undergraduate teaching assistantship experience.

## UNIVERSITY DEGREE REQUIREMENTS

**Requirements Detail**

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

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

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

## LEARNING OUTCOMES

1. Knowledge of lifespan human development (including cognitive, social, and emotional development and individual differences) in social and ecological contexts.
2. Knowledge of family and community diversity.
3. Knowledge of internal family processes, including parenting and parent-child relations, couples, and family relationships across generations and family health and wellbeing.
4. Ability to consider and evaluate how children, adults, and individual families affect and are affected by policies, media, or other social institutions.
5. Knowledge about the effective and ethical practice of assessment, prevention, intervention, or outreach for individuals and families.
6. Ability to understand, evaluate, and ethically conduct social science research.
7. Ability to demonstrate relevant professional skills.

## ADVISING AND CAREERS

### STUDENT ACADEMIC AFFAIRS & CAREER DEVELOPMENT

The Student Academic Affairs & Career Development Office (SAA) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Student Academic Affairs & Career Development Office. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://sohe.wisc.edu/prospective-students/advising>).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success

as a life-long learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Internship and Career Preparation (<https://sohe.wisc.edu/prospective-students/career-preparation>).

## PEOPLE

Professors Poehlmann-Tynan, Raison, Roberts, Small; Associate Professors Dilworth-Bart, Duncan, Halpern-Meekin, Hartley, Kirkorian, Nix, Papp; Assistant Professor Litzelman; Faculty Associates Burkholder, Levchenko

For more information, visit the School of Human Ecology faculty and staff directory (<https://sohe.wisc.edu/connect/faculty-staff>).

## HUMAN ECOLOGY - SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, B.S. (p. 1531)

## INDIVIDUAL MAJOR, B.S.

The individual major is a program for undergraduate students who want to fulfill a specific academic goal that is not easily attained through a major in one or more departments. The major must meet a course of study that involves at least two departments and be targeted at a specific problem or academic interest identified by the student. A student proposal must be submitted and approved by the SoHE Undergraduate Program Council. Students are encouraged to begin working with faculty and advisors in the Student Academic Affairs & Career Development Office by the end of the sophomore year. Thirty credits must be earned in residence after the term in which the proposal is approved. The major will be guided by a committee of at least three faculty members (with no more than two faculty members from one department).

Individual majors are intended to create a unique program of study that otherwise does not exist on this campus individually or in a combination of majors and certificate programs. Students should carefully explore all University of Wisconsin–Madison majors, certificates, and dual-degree opportunities before pursuing an individual major. A proposal that essentially parallels an existing SoHE or campus major will not be approved.

Graduates of the Individual Major earn a bachelor of science in human ecology. The major will match the approved proposal title, which must have a human ecology focus.

## HOW TO GET IN

### ELIGIBILITY

Students must be in good academic standing and have a minimum cumulative GPA of 3.5 to be considered for an Individual Major. Any

interested student should have completed at least two semesters (a minimum of 24 credits) in residence before submitting an application. Ideally, proposals will be made by the end of sophomore year or the beginning of junior year.

## PROPOSING AN INDIVIDUAL MAJOR

After discussing their proposed plan with a SoHE advisor and ensuring they meet the application qualifications, students will begin building a faculty committee and developing a proposal. An Individual Major must be comprised of at least two different SoHE academic departments. If a third department is selected, it may be from in or outside of SoHE. Students should develop a one-page abstract to share with faculty as they work to build their committee. Once the committee is formed, the student will select one committee member as the major advisor. The major advisor must be from the SoHE department in which the majority of courses for the program will be taken. The student will work with the faculty committee to develop the proposal and select all required courses for the Individual Major, the majority of which must be completed in SoHE. The student will then submit a formal proposal to the SoHE Student Academic Affairs & Career Development Office to be forwarded for action to the SoHE Undergraduate Program Council, which meets throughout the academic year.

Please contact the SoHE Student Academic Affairs & Career Development Office for the complete Individual Major proposal instructions.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## INDIVIDUAL MAJOR REQUIREMENTS

The student will work with the faculty committee to develop the individual major proposal and select all required courses, the majority of which must be completed in SoHE. If the Individual Major is approved by the SoHE Undergraduate Program Council, the student will complete all required courses as outlined with the faculty committee.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## ADVISING AND CAREERS

Students interested in pursuing an individual major should first meet with a SoHE academic advisor to ensure program eligibility and to discuss their area of interest and rationale. Appointments should be made by contacting the SoHE Student Academic Affairs & Career Development Office at 608-262-2608.

# SCHOOL OF NURSING

The School of Nursing (<https://nursing.wisc.edu>), established in 1924, is the leading nursing research institution in Wisconsin and a crucial part of the state's health care system.

The school offers a full array of degree programs enrolling more than 1,000 students—the bachelor of science in nursing (BSN), the doctor of nursing practice (DNP), and the doctor of philosophy in nursing (Ph.D.), along with several graduate-level certificate programs.

At the undergraduate level, degree options include the Traditional BSN, a four-year degree program; the Accelerated BSN, a 12-month program for second-degree candidates; and the RN to BSN (BSN@Home) program, for registered nurses who hold an associate's degree in nursing and wish to earn the baccalaureate degree. Options exist for honors study in the major, as well as joint programs whereby students can earn the master of public health along with the BSN or transition directly to the Ph.D. program via the Early Entry Ph.D. Option.

Student life pairs the educational and social resources of a large, world-class university with a supportive environment at the school. Students receive comprehensive support services related to advising, program planning, clinical placements, career services, financial aid, and post-graduation credentialing.

World-renowned facilities for clinical practice and research are available in and around Madison. These include University of Wisconsin Hospital and Clinics, American Family Children's Hospital, UW Carbone Cancer Center and William S. Middleton Memorial Veterans Hospital; hospitals and clinics in urban and rural settings; nursing homes; day-care centers; and public health agencies. The university's location in Wisconsin's capital offers additional opportunities in state government and policy making.

On campus, Signe Skott Cooper Hall, the School of Nursing's new facility, has state-of-the-art classrooms, simulation labs, meeting and research facilities, and social gathering spaces in an environment dedicated to the health and wellness of students, faculty, staff and the communities and populations we serve.

The school's mission is to develop leaders for the profession and society—we make discoveries, enhance systems, and improve health through research, education, and practice.

## DEGREES/MAJORS/CERTIFICATES

- Nursing, BSN (p. 1538)
- Nursing, BSN (Accelerated Program) (p. 1542)
- Nursing, BSN (Collaborative Program) (p. 1546)

## PEOPLE

### OFFICE OF ACADEMIC AFFAIRS

#### ADMINISTRATION

**Linda D. Scott, PhD, RN, NEA-BC, FAAN**  
Dean and Professor

[ldscott@wisc.edu](mailto:ldscott@wisc.edu) ( [ldscott@wisc.edu](mailto:ldscott@wisc.edu) )

#### Earlise Ward, PhD

Interim Associate Dean for Academic Affairs, Associate Professor  
[ecward@wisc.edu](mailto:ecward@wisc.edu) ( [ecward@wisc.edu](mailto:ecward@wisc.edu) )

#### Karen Mittelstadt

Assistant Dean for Academic Affairs (Academic Dean)  
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608-263-5284

#### Karen D. Solheim, PhD, RN

Undergraduate Program Director, Clinical Professor  
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## ADVISING AND STUDENT SERVICES

#### Katie Bleier

Director of Advising and Student Services  
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608-263-5172

#### Molly Censky

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#### Mary Russell

Career Advisor  
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#### Darby Sugar

Undergraduate Advisor and Academic Support Coordinator  
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#### Kim Tobin

Undergraduate Advisor  
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## ADMISSIONS AND RECRUITMENT

#### Vacant

Director of Admissions and Recruitment

#### Brent Fisher

Undergraduate Admissions and Recruitment Coordinator  
[bjfisher@wisc.edu](mailto:bjfisher@wisc.edu) ( [bjfisher@wisc.edu](mailto:bjfisher@wisc.edu) )

## CLINICAL PLACEMENT

#### Tina Degroot

Director of Clinical Practica  
[tmdegroot@wisc.edu](mailto:tmdegroot@wisc.edu) ( [tmdegroot@wisc.edu](mailto:tmdegroot@wisc.edu) )

## STUDENT INFORMATION AND TECHNOLOGY

#### Vacant

Student Information and Technology Manager

#### Laura Linde Turnes

Curricular Representative and Student Compliance Coordinator

llinde@wisc.edu (llinde@wisc.edu)

## ENTERING THE SCHOOL

### ADMISSION TO UW–MADISON

All prospective UW–Madison nursing students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu>).

#### PRE-NURSING FRESHMEN

Students who indicate interest in the nursing major on their UW–Madison application will be admitted to the School of Nursing as pre-nursing (PRN) students. In addition, students may indicate interest in the nursing major when registering for Student Orientation, Advising, and Registration (SOAR). The School of Nursing is the academic home for pre-nursing students, providing orientation, academic advising, academic support, etc., while students complete nursing prerequisite courses and general education requirements in preparation to apply to the nursing major. Most pre-nursing students apply to the nursing major midway through their sophomore year to enter the two-year Upper Division nursing program as juniors.

#### PRE-NURSING TRANSFERS

Students may transfer into UW–Madison as pre-nursing students. As with pre-nursing freshmen, transfer students have an academic home in the School of Nursing as they work to complete prerequisites and general education requirements in preparation to apply to the Upper Division Traditional BSN program.

#### SECOND-DEGREE CANDIDATES

Students seeking to earn a second degree in nursing can apply directly to either the Traditional BSN program or the Accelerated BSN program upon completing necessary admission requirements (see details below). Second-degree candidates must be admitted directly into the nursing program; they cannot enter UW–Madison as pre-nursing students.

### ADMISSION TO THE NURSING PROGRAM TRADITIONAL BSN

As students complete the requirements to be eligible to apply to the nursing program, they apply to the Upper Division Traditional BSN program. To be eligible to apply, students must complete the necessary prerequisite courses and have the minimum 2.75 cumulative and prerequisite GPAs; complete details on the Upper Division Traditional BSN admission requirements and application process can be found on the Traditional BSN admission page (p. 1538) of this *Guide*.

### ACCELERATED BSN FOR SECOND-DEGREE CANDIDATES

Second-degree candidates can apply for the Accelerated BSN program. This is a 12-month intensive baccalaureate program that offers the quickest route to licensure as a registered nurse (RN) for students who have already completed a bachelor's degree or graduate degree in a non-nursing discipline. Students must complete nursing prerequisite courses and the university General Education Requirements, and have the minimum GPAs, to be eligible to apply. Complete details on the accelerated BSN admission requirements and application process can be found on the Accelerated BSN admission page (p. 1542) of this *Guide*.

### RN TO BSN (BSN@HOME)

Registered nurses who have an associate's degree or diploma in nursing can apply to enter the BSN@Home program to earn their bachelor's degree in nursing (BSN). There are GPA minimums and course requirements necessary for admission eligibility. These details are included on the BSN@Home admission page (p. 1546) of this *Guide*.

### CURRENT UW–MADISON STUDENTS

Students with at least a 2.75 cumulative and nursing prerequisite GPA may transfer into the School of Nursing as pre-nursing (PRN) students. Students who are not in the School of Nursing may also apply for the Upper Division Traditional BSN program without being pre-nursing students. Transfer requests (i.e., classification changes) must be made before the twelfth week of the semester in order to be applied to that semester. Requests made after the twelfth week will take effect at the start of the following semester. For more information and to request a classification change to PRN, students should contact the nursing Office of Academic Affairs at 608-263-5202.

## POLICIES AND REGULATIONS

The students, faculty, administration, and staff of the School of Nursing are part of the University of Wisconsin–Madison's academic community, and as such, are subject to the policies, rules, and regulations of the university. In addition, the school and its respective programs may, as deemed necessary, develop their own policies and procedures to augment those of the university. Following are the specific School of Nursing policies and regulations that expand upon or differ from the policies of the university as a whole.

### ACADEMIC STATUS

#### Academic Actions (Warning, Probation, Drop)

Every student (pre-nursing and nursing) is expected to maintain at least a 2.5 GPA on all work carried, whether passed or not, in each semester or summer session. Students who maintain this average are considered in **good standing**. Failure to earn this minimum GPA will result in the academic action of **warning**, **probation**, or **dropped** (academically dismissed). Students must be in good academic standing in order to be eligible for graduation.

#### If not on warning and:

1. Earns a GPA in a semester or summer session of 1.75–2.49 = warning
2. Earns a GPA in a semester or summer session of less than 1.75 = probation

#### If on warning and:

1. Earns a GPA in a semester or summer session of 1.75–2.49 = probation
2. Earns a GPA in a semester or summer session of less than 1.75 = dropped from the program

#### If on probation and:

1. Earns a GPA in a semester or summer session of 2.5 or above but cumulative GPA remains under 2.5 = continued probation
2. Earns a GPA in a semester or summer session of less than 2.5 or a nursing cumulative GPA below 2.5 = dropped from the program

In addition to the academic actions detailed above, nursing (NUR) students are placed on probation if they:

1. Earn a grade of F or NC in any nursing course, and/or
2. Earn a nursing cumulative GPA below 2.5

Any student on academic action will automatically be cleared of action status when the semester GPA is 2.5 or above and the cumulative GPA is 2.5 or above; and if NUR or NCP (i.e., BSN@Home) classification, the nursing cumulative GPA is at least 2.5 or above.

### Dean's Honor List

The purpose of the Dean's Honor List is to recognize superior academic achievement of undergraduate students. Students must achieve a minimum GPA of 3.75 on a semester load of not fewer than 12 credits in order to be placed on the Dean's Honor List. A notation of *Dean's Honor List* will appear on the student's grade report and transcript. Students who earn a semester GPA of 3.25–3.74 on 12 or more credits will receive a congratulatory statement on their end-of-semester grade report form.

### English as a Second Language

All nursing students must be proficient in English to provide safe patient care and to be successful academically. Students facing challenges in these areas may be referred by self-identification, a faculty member, or advisor to support services. Although limited English proficiency in itself is not a reason for dismissal, it can interfere with a student's ability to complete course requirements, leading to failure to progress or meet program requirements.

### Good Standing

To be in good standing, students must maintain:

- a cumulative GPA of 2.5 or above, and
- a cumulative GPA of 2.5 or above on all nursing courses completed, and
- a GPA of 2.5 or above in the semester just completed

### Graduating with Distinction

Graduation with Distinction will be noted on the transcript of students who earned 60 or more credits at UW–Madison and a GPA that places them in the top 20 percent of those graduating from the School of Nursing that term.

### Satisfactory Academic Progress

The time required to complete the program depends on the sequence of courses, plan of study, and placement availability in nursing courses. Students may complete the program in four years; however, additional semesters or summer sessions may be needed to fulfill requirements. If requirements for the degree have not been completed within five years after admission to the nursing major, the student's academic record will be reviewed by the Office of Academic Affairs to establish additional requirements, if appropriate.

## APPEALS, GRIEVANCES, AND PETITIONS

### Appeals

Appeals are limited to requests to continue in the nursing program after being dropped from the program for academic reasons. A written appeal must be filed with the assistant dean for academic affairs within 10 working days of the date of the letter notifying the student of the decision to discontinue the student in the program. Details on the appeal process can be found in the Student Appeals and Grievance Procedures ([http://academic.son.wisc.edu/studentnet/docs/appeals\\_grievances.pdf](http://academic.son.wisc.edu/studentnet/docs/appeals_grievances.pdf)).

### Grievances

Any student who believes that he or she has been treated inequitably is encouraged to resolve the matter informally. The student should first talk with the person or group at whom the grievance is directed in an effort to resolve the issue informally. A grievance procedure is available to resolve student concerns regarding inequitable treatment that have not been satisfactorily resolved through the informal resolution process or where the student believes that informal resolution would not be productive. Details on the appeal process can be found in the Student Appeals and Grievance Procedures ([http://academic.son.wisc.edu/studentnet/docs/appeals\\_grievances.pdf](http://academic.son.wisc.edu/studentnet/docs/appeals_grievances.pdf)).

### Petition for Special Consideration

Nursing students may use the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>) to request an alternative or exception to an academic rule, regulation, procedure, or requirement.

## CLINICAL/EXPERIENTIAL LEARNING COURSES

All nursing students are required to complete credit hours in the clinical setting under the supervision of a nursing professional. In the School of Nursing, the term *experiential learning* is used to describe the clinical course experience. These clinical experiences support the mission of the School of Nursing, integrating practice and coursework, to provide a comprehensive nursing education. There are some policies specific to experiential learning courses:

### Compliance Requirements

The School of Nursing is committed to ensuring all nursing students are compliant with national and state guidelines for personnel providing nursing care, as well as additional/specific requirements mandated by the school's clinical affiliates as set forth in the clinical affiliation agreements. Therefore all nursing students are required to be in full adherence to the school's compliance program while enrolled in the nursing program. The school's compliance program includes immunizations, trainings, and a background check. Students will be held accountable for complying with the clinical eligibility requirements prior to entering the program and throughout their program of study. All students are required to keep their compliance documents up to date as an essential part of their professional responsibility for patient safety. Review the Nursing Student Compliance Program (<http://academic.son.wisc.edu/studentnet/compliance>) for complete details.

### Clinical Placements

Students are assigned to clinical placement sites based on the faculty's selection of clinical sites specific to the learning objectives of the course, site characteristics, and availability. Students need to be prepared to travel up to 90 miles from the School of Nursing and have varied schedules including evenings, nights and weekends. Clinical shifts may be 4-12 hours long. The School of Nursing secures clinical placements for all students who are eligible. Students are not asked to nor allowed to arrange their own clinical placements.

### Transportation

The School of Nursing recognizes that students need educational experiences beyond those available in hospitals in Madison, Wisconsin. In answer to this educational need, and in order to secure enough clinical sites for all students, the school places its students in a variety of venues in and beyond Madison. This includes ambulatory sites, clinics, rehabilitation centers, home health agencies, geriatric facilities, school districts, nursing homes, etc. This gives our students comprehensive exposure to a broad range of patients, illness, and care. Nursing students are responsible for arranging their own transportation to and from their

clinical sites. First-year clinicals are accessible by public transportation from Signe Skott Cooper Hall and other points in Madison. Second-year clinicals require travel to and from an agency, as well as to and from homes, schools, and other sites. Locales may be up to 90 miles from Madison. Therefore, second-year nursing students are required to have (1) a valid driver's license, and (2) individual access to a car. Students are responsible for all transportation costs incurred, including gas and parking fees. Students with extenuating circumstances that have an impact on their clinical transportation options (e.g., driving/medical restrictions) should use the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>) to request an accommodation or exception to the transportation policy. The petition must be submitted on/by March 1 for clinical placements during the next fall term and on/by November 1 for the next spring term placements. These deadlines are firm, as a petition must be reviewed in advance of clinical assignments. There is no guarantee the school will be able to honor such requests/conditions, and exceptions are granted in very rare circumstances.

### Uniforms

Nursing students are required to purchase the approved School of Nursing uniform. The uniform consists of a white top and navy pants. The white top, embroidered with the School of Nursing logo, is available in two styles and the pants will be available in three styles. Lab coats embroidered with the school logo are also required and are worn when students are on their clinical units doing clinical preparation and during most community clinical experiences. In addition to the uniform requirements, there are also professional appearance guidelines ([http://academic.son.wisc.edu/studentnet/undergrad/course\\_info/prof\\_appearance.php](http://academic.son.wisc.edu/studentnet/undergrad/course_info/prof_appearance.php)) for students.

## COURSES AND ENROLLMENT

### Attendance

In order to meet course and/or clinical objectives, students are expected to be present and engaged in both the classroom and/or clinical learning environment. Excessive absences impede a student's ability to meet course objectives resulting in an unsuccessful completion of a course. Students are expected to attend and participate in all classes and clinical rotations unless excused by the course faculty prior to being absent. Faculty may request documentation regarding the nature of the absence (health provider note, proof of emergency, etc.), particularly if absences become excessive. For clinical courses, students who miss more than 12 supervised hours will be dropped from the course.

### Credit/No Credit Courses

Some courses are designated as being offered on a Credit/No Credit basis. The transcript for the course will indicate either CR (meaning the student earned credits for the course) or N (meaning the student did not earn any credit for the class). Students may not take such courses on any other basis.

### Concurrent Registration and Enrollment

In some rare circumstances, and only with prior approval of the academic dean, students may enroll to earn degree credit concurrently at UW–Madison and any other accredited postsecondary school, including the UW–Extension. Requests for approval should be made prior to the end of the second week of classes of the semester in which dual registration is desired. Courses must be completed during the semester in which concurrent enrollment is allowed. To request permission for concurrent enrollment, submit the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>).

### Drop Notation

The Drop (DR) notation appears on students' records if they drop a class or classes after the last day to drop courses or withdraw without a DR or W grade notation appearing on students' transcripts. For the specific deadline for dropping classes so a DR will not appear on a student's records, see *Deadlines at a Glance* ([http://www.registrar.wisc.edu/spring\\_deadlines\\_at\\_a\\_glance.htm](http://www.registrar.wisc.edu/spring_deadlines_at_a_glance.htm)) on the Office of the Registrar website. Please note that the School of Nursing does not backdate drops to erase them from a student's academic records or extend the drop deadline so that the DR will not appear.

### Dropping a Nursing Course

A student who drops a nursing (N#) course may reenroll in the course when space is available. A student who drops a nursing course a second time is not eligible for the course a third time.

### Independent Study

Students are responsible for identifying their area of interest or question, establishing objectives for their learning experience, and developing a learning contract with the faculty member. All independent study requires the consent of the instructor. Approval forms are available on the Forms Page (<http://academic.son.wisc.edu/studentnet/forms/enroll>) within the School of Nursing StudentNet.

### Registration Changes

The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit. Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc. Students are strongly encouraged to consult with an academic advisor or the academic dean in the School of Nursing prior to initial enrollment and before making any changes to enrollment. Exceptions to or extensions of the university deadlines may only be requested via the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>).

### Reentry

Any student who leaves the School of Nursing and wishes to return after an absence of one semester or more must file a reentry application with the UW–Madison Office of Admissions and Recruitment. Permission to reenter is dependent on program capacity, previous academic standing, and length of absence. Immediate placement in required nursing courses is not assured. Students seeking reentry to the baccalaureate program who have left on academic action must be reviewed by the Office of Academic Affairs. If readmission is granted, academic requirements may be specified to insure currency in nursing knowledge and skills prior to enrolling in clinical nursing courses. These requirements may include remediation and/or repetition of courses, depending on academic standing or length of time since leaving the program. The remaining program will be planned as considered best for the student and according to the current curriculum.

### Retaking Courses

Each individual required nursing course may be repeated only once with a maximum of two repeated courses in the curriculum. Students who do not successfully complete a course after two attempts or who must repeat more than two different courses will be dis-enrolled from the nursing program. A course for which a student earned a grade below C (or NC in a clinical course) must be repeated within the next two semesters in residence. All grades earned will be used in calculating the student's cumulative and nursing grade point averages, but credits will be counted only once toward the minimum nursing and degree credit requirements.



**Didactic/Theory Courses:** Undergraduate students may repeat any required didactic/theory course once without special permission from the Assistant Dean for Academic Affairs.

**Clinical Courses:** To repeat a clinical course, an appeal must be made to the Assistant Dean for Academic Affairs who will determine if the appeal merits approval. Upon a successful appeal, a student may repeat a clinical course based upon course schedule and program capacity.

### Withdrawal

A nursing student who finds it necessary to withdraw during a semester or summer session must talk with an academic advisor and complete the withdrawal process. Failure to do so may result in a recording of failure for all courses. Any student may withdraw from the program without grades being recorded during the first 12 weeks of a semester. After the 12th week, a student may withdraw only with the permission of the Office of Academic Affairs.

## CREDITS

### 30-Credit residence requirement

Students must complete at least 30 credits at UW–Madison. Baccalaureate students must complete at least 15 credits in nursing courses from the School of Nursing, including one required clinical nursing course at the 400 level or above.

### Credit Load

A full-time program is 12 to 18 credits for a semester. Students who wish to carry more than 18 credits per semester must obtain permission from the Office of Academic Affairs. Students will be assessed additional tuition per credit on all credits carried over 18.

### Retrocredits

The School of Nursing grants retroactive foreign language credit to students for foreign language skill developed in high school or elsewhere. To earn retroactive credits for language, students must enroll in a higher level language course at UW–Madison before the end of the first two semesters in residence. Transfer students must enroll in the course on the UW–Madison campus before they earn 30 degree credits (including credits transferred from other campuses but not including AP, CLEP, IB, or retro credits in another language). Students must earn a grade of B or better. If these conditions are met, retroactive credits should appear automatically on a student's transcript by the beginning of the following semester. Students will receive credit for the UW course completed and for all lower level courses in that language up to 16 retroactive credits maximum. These retroactive language credits may be used to meet degree requirements of the college or department, but may not be used to meet humanities requirements. They will be counted as electives only.

## DEGREES

### Second Undergraduate Degree

Second undergraduate degree candidates are considered for admission to both the pre-nursing and nursing classifications. Students who apply as second undergraduate program candidates must meet the admission and transfer grade point requirements of the university in place at the time they apply for admission. If admitted, an action is taken granting permission to pursue a second degree.

### Second Major

Students may request permission to pursue a second major along with the nursing degree. Students must complete the nursing school's Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>) to make the request.

## GRADES

### Grading Scale

The school has a standard grading scale in nursing courses that are graded A-F, as noted below. Some clinical courses are graded Credit/No Credit.

A: 94–100  
AB: 88–93.99  
B: 82–87.99  
BC: 76–81.99  
C: 70–75.99  
D: 65–69.99  
F: <65

### Incompletes

An incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond the student's control, is unable to take or complete the final examination or is unable to complete some limited amount of term work. An Incomplete is not given to a student who stays away from a final examination except as indicated above. In the absence of substantiated cause, the grade shall be F. Even with such proof, if the student's work has convinced the instructor that s/he cannot pass the course, the grade shall be F. Any Incomplete taken by a School of Nursing student must be completed by the end of the student's next semester of residence (specifically, by the last day of classes), excluding summer sessions. If the work is not completed by this deadline, the Incomplete will lapse into a Failure unless the time limit has been extended in writing by the Office of Academic Affairs.

### Minimum Grade Requirement

Students must earn a grade of C (2.0) or higher in each required nursing (N#) course, including didactic/theory and clinical courses. Students must receive credit (CR) in any clinical course that is offered on a Credit/No Credit basis. Any student who earns a grade below C or does not receive credit for a clinical course must repeat the course and earn a C or higher (or CR in a clinical course) in order to progress in the program in accordance with subsequent course prerequisites.

### Pass/Fail

The total number of ungraded credits (i.e., pass/fail) applied to graduation requirements may not exceed 24. Students who plan graduate study are advised to consult with graduate studies departments to determine acceptance of credits taken under the pass/fail option. Students eligible for the pass/fail privilege are continuing students with NUR, NCP (BSN@Home), or PRN classifications who have a minimum 2.5 cumulative GPA on all courses completed and have no end-of-semester academic actions on their current record. Newly admitted students in these classifications are also eligible for the pass/fail privilege. Only one course can be carried on pass/fail basis during each semester or summer session; or 3 or 4 credits of 1-credit modular courses. No required courses may be carried under the pass/fail option. The registrar's office will convert final letter grades reported by the student's instructor to an S (pass) grade if the letter grade is C or higher or to a U (fail) if the final letter grade is below C. Course credits in which a student obtains a U grade cannot be counted toward the minimum of 124 credits required for graduation. Students interested in the pass/fail option must contact their nursing academic advisor to determine eligibility.

## RESOURCES

### SIGNE SKOTT COOPER HALL

In fall 2014, the School of Nursing moved to the new Signe Skott Cooper Hall. This \$53.3 million nursing building features world-class technology and innovative educational spaces that will allow the nursing school to address health care's new standard of excellence—high-tech and high-touch methods and practices that result in better patient outcomes and greater satisfaction with care.

### ADVISING AND STUDENT SERVICES

#### OFFICE OF ACADEMIC AFFAIRS

The Office of Academic Affairs is the undergraduate dean's office for the School of Nursing. Staff members interpret school regulations, policies, and program requirements; make exceptions around requirements and deadlines; advise prospective and current students; monitor students having academic difficulties; coordinate compliance; facilitate the program's admissions process; and maintain the official files of students in the school.

#### ACADEMIC ADVISING

Academic advising is an essential component of undergraduate education. The primary advising mission in the School of Nursing is to help students identify and clarify their academic pathways and educational goals, and to help them develop meaningful plans to ensure academic success. Advising is an ongoing, caring, and collaborative relationship between advisor and student that provides meaning, guidance, and support throughout the educational process. Every pre-nursing (PRN) and nursing (NUR) student is assigned a professional advisor in the nursing school ([http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors\\_ug.php](http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors_ug.php)). Advising is offered in individual appointments, group advising, and graduation checks for seniors.

#### CAREER ADVISING

In addition to professional academic advisors, the School of Nursing has career advising available to help students prepare for a successful career in nursing. Services include resume and job search assistance, online job postings, information sessions, and nursing career fairs.

### ACADEMIC SUPPORT SERVICES

The Nursing Learning Center ([http://academic.son.wisc.edu/studentnet/resources/learning\\_support\\_serv.php](http://academic.son.wisc.edu/studentnet/resources/learning_support_serv.php)) in Cooper Hall is a place where students can gather with other like-minded, focused, and enthusiastic students to improve not only their understanding of the course material but of their own learning styles. Sessions are designed to assist pre-nursing and nursing students in weekly small-group study formats. Current courses supported include anatomy, physiology, pharmacology, and pathology, as well as courses in the nursing curriculum. Workshops and other sessions help students with test preparation, study skills, time management, etc.

### STUDENT ORGANIZATIONS

The School of Nursing encourages and supports students to pursue their interests and form social networks. In addition to numerous associations available to students on the broader campus (including the Aspiring Nurses Association [ANA] for pre-nursing students), there are a number of student-run groups established specifically for current nursing students. These include the Student Nurses' Association, the Multicultural Student

Nurses' Organization, the Nurse's Christian Fellowship, the Global Health Interest Group, the Holistic Nursing Group, the Perinatal Interest Group, and the Student Geriatric Interest Group. The purpose of these groups is to give students the opportunity to enhance their experiences related to professional development, social circles, political action, community service, and academic achievement, as well as foster connections between faculty, staff, and students.

### FINANCIAL AID AND SCHOLARSHIPS

The School of Nursing awards more than \$400,000 in scholarships each year to admitted undergraduate nursing students. Awards are based on both academic merit and financial need. Students are invited to apply to nursing specific scholarships, as well as campus-wide or non-nursing scholarships, through the Scholarships@UW-Madison system (<http://www.scholarships.wisc.edu>).

## HONORS

### HONORS PROGRAM

The School of Nursing offers an Honors Program for those high-ability students seeking early research involvement with a faculty mentor. Students who successfully complete the Honors Program graduate with distinguished academic performance and receive a Bachelor of Science in Nursing (BSN) with Honors. In addition, students of the Honors Program acquire an enriched view of nursing science.

Each student in the Honors Program has an active role in identifying a faculty mentor. Once a student is assigned a faculty mentor, the mentor will help the student understand the research process and provide research-related resources. The mentor will also assist with identification and implementation of a senior honors thesis.

Qualified students with a cumulative undergraduate GPA at or above 3.5 are invited to apply for admission to the Honors Program when they are admitted to the nursing program. Admission to the Honors Program is judged on past academic work, a short essay, and a letter of reference.

Review the Honors Program ([http://academic.son.wisc.edu/studentnet/undergrad/degree/honors\\_req.php](http://academic.son.wisc.edu/studentnet/undergrad/degree/honors_req.php)) page of the StudentNet for complete details.

## SCHOOL OF NURSING

### DEGREES/MAJORS/CERTIFICATES

- Nursing, BSN (p. 1538)
- Nursing, BSN (Accelerated Program) (p. 1542)
- Nursing, BSN (Collaborative Program) (p. 1546)

## NURSING, BSN

The bachelor of science in nursing (BSN) degree program prepares individuals for careers in professional nursing in hospitals and other health care agencies. This Traditional BSN program provides a foundation for progressing to positions of increased responsibility, leadership, and continued education in graduate programs. Upon successful completion

of the program, students receive a bachelor of science in nursing degree from the UW–Madison School of Nursing.

The curriculum includes courses in nursing as well as in liberal arts and sciences. Most students enter UW–Madison as pre-nursing students and spend their first two years completing nursing prerequisite and general education courses. Students then apply midway through their sophomore year to enter the nursing program as juniors. From there, the two-year nursing component includes lectures, laboratory, and clinical courses. Nursing courses emphasize clinical decision-making and the application of theoretical knowledge. Clinical experiences are offered in hospital settings and in community health settings. Elective courses in general education and in nursing permit students to pursue individual interests.

## HOW TO GET IN

Admission to the nursing major is competitive and determined by a comprehensive review of each student's academic preparation and performance, leadership, extracurricular activities and service, health care experience and background, diversity in experience and background, and the quality of application statements/essays.

**Upper Division admission** is the standard route into the Traditional BSN nursing program. In this model, students enter UW–Madison as pre-nursing students (PRN), they spend the first two years completing general education requirements and nursing prerequisites, and then apply for admission to the nursing program for the final two years on campus. Students may also apply to transfer directly into the Traditional BSN campus from another institution, upon completing the admission requirements.

Admission is highly competitive and based on factors including academic performance, pattern and trend of grades, courses taken, leadership roles, extracurricular activities, experiences related to health care, and experiences or background in diverse cultural, social, and geographic settings. Approximately half the students who apply for admission are admitted. The application deadline is February 1 to enter the nursing program the following fall.

To be considered for Upper Division Admission, students must, at the time of application:

1. be in progress to complete at least 54 degree credits of college-level course work by the end of the spring semester;
2. have a minimum cumulative college GPA of 2.75 (based on a 4.0 scale) at the end of the fall semester and again at the end of the spring semester;
3. have completed or have in progress four of the following seven prerequisite courses by the end of the fall semester, and be enrolled to complete all seven by the end of the spring semester; and
4. have a minimum prerequisite GPA of 2.75 on all prerequisites completed to date and complete all seven with at least a 2.75 GPA.

The seven prerequisite courses are:

1. Chemistry w/ Lab
2. Microbiology
3. Human Anatomy
4. Human Physiology

5. Psychology (introductory)
6. Sociology (introductory)
7. Human Growth and Development

Students transferring to the University of Wisconsin–Madison, as well as students who already have a bachelor's degree and wish to earn a second degree in nursing, also apply via the Upper Division Admission option. More information on the admission process and requirements for transfer students and second-degree students is available on the School of Nursing website (<https://nursing.wisc.edu/undergraduate/bsn>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

### SCHOOL OF NURSING REQUIREMENTS

The bachelor of science in nursing (BSN) degree is a 124-credit curriculum comprised of the core nursing curriculum, as well as general education requirements, nursing prerequisite coursework, and elective courses. The required courses for graduation are listed below. In addition to completing this coursework, students must:

1. Earn a cumulative and nursing GPA of at least 2.5, and
2. Complete at least 30 credits in residence on the UW–Madison campus, and
3. Earn at least 75 of the required 124 degree credits at the intermediate or advanced level

## TRADITIONAL BSN MAJOR REQUIREMENTS

### SCIENCE

Code	Title	Credits
<b>Science</b>		
<i>Chemistry</i>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
Equivalent		
<i>Microbiology</i>		
Select one of the following:		3
MICROBIO 101	General Microbiology	
BIOCHEM 501	Introduction to Biochemistry	
Equivalent		
<i>Human Anatomy</i>		
ANATOMY/ KINES 328	Human Anatomy (or equivalent)	3
<i>Human Physiology</i>		
PHYSIOL 335	Physiology (or equivalent)	5
<i>Pharmacology</i>		
PHM SCI 401	Survey of Pharmacology (or equivalent)	3
<i>Pathology</i>		
PATH 404	Pathophysiologic Principles of Human Diseases (or equivalent)	3
Total Credits		21-22

### HUMANITIES AND SOCIAL SCIENCE

Code	Title	Credits
<b>Humanities and Social Science</b>		
<i>Psychology</i>		
PSYCH 202	Introduction to Psychology (or equivalent)	3
<i>Sociology</i>		
Select any introductory Sociology course		3
<i>Human Growth and Development</i>		
Select three credits of Human Growth and Development		3
<i>Humanities</i>		
Select six credits of Humanities		6
<i>Humanities or Social Science</i>		
Select seven credits of Humanities or Social Science		7
Total Credits		22

### MATH

Code	Title	Credits
<b>Math</b>		
<i>College Algebra</i>		
MATH 112	Algebra (or equivalent)	3
Total Credits		3

### ELECTIVES

Code	Title	Credits
<b>Electives</b>		
Select 15-27 credits of electives		15-27
Total Credits		15-27

### NURSING

Code	Title	Credits
<b>Nursing</b>		
NURSING/S&A PHM/ SOC WORK/ THER SCI 105	Health Care Systems: Interdisciplinary Approach	2
NURSING 212	Human Responses to Health and Illness I	4
NURSING 219	Clinical Nursing I	4
NURSING 301	Health History and Patient Assessment	3
NURSING 302	Introduction to Systematic Investigation	3
NURSING 310	Mental Health and Mental Illness: Implications for Nursing	3
NURSING 312	Human Responses to Health and Illness II	4
NURSING 319	Nursing Care in the Inpatient Setting	4
NURSING 322	Community Health Nursing	3
NURSING 332	Essentials of Family-centered Perinatal and Pediatric Nursing	3
NURSING 401	Legal and Social Forces in Nursing	3
NURSING 415	Organizational Influences on Interdisciplinary Practice	3
NURSING 419	Clinical III: Community Health Nursing Practicum	4
NURSING 422	Advanced Concepts in Nursing Practice	3
NURSING 433	Essentials of Gerontological Nursing	3
NURSING 449	Nursing Care of Persons and Families with Complex Health Care Needs	4
Total Credits		53

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

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

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

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

## LEARNING OUTCOMES

1. Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
2. Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
3. Make effective use of technology for patient care, education, and management of health information.
4. Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
5. Use knowledge sources effectively to provide evidence-based care.
6. Identify health disparities and advocate for basic essential health services for all.
7. Allocate health care resources to maximize the health care benefit to clients, families, and community.
8. Assume fiscal and ethical responsibility for clinical practice.
9. Function as a member of the nursing profession within the community and the world.

## ADVISING AND CAREERS

The School of Nursing provides dedicated, professional academic and career advising to undergraduate students in their pre-nursing and nursing years. As one of the smaller schools on campus, the school is able to offer a great deal of personal attention and individualized academic and career advising.

## ACADEMIC ADVISING

All pre-nursing and nursing students are assigned an academic advisor based on the students last name. Generally speaking, freshmen receive advising in small-group sessions. Once students enter their sophomore year, they move to one-on-one advising appointments with their assigned advisor. Detailed information on the school's academic advising system and staff ([http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors\\_ug.php](http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors_ug.php)) are available on the school's student intranet, called the StudentNet (<http://academic.son.wisc.edu/studentnet>). Questions about advising can also be directed to the Office of Academic Affairs at 608-263-5202.

## CAREER ADVISING

The school offers career advising services to provide resources and strategies for career planning and placement. This includes workshops and job/internship fairs, resume review, job search resources, and licensure information. In addition, the school offers a 1-credit seminar N590 Introduction to Career Development in Nursing.

## PEOPLE

### ADMINISTRATION

#### Linda D. Scott, PhD, RN, NEA-BC, FAAN

Dean and Professor  
ldscott@wisc.edu ( ldscott@wisc.edu)

#### Earlise Ward, PhD

Interim Associate Dean for Academic Affairs, Associate Professor  
ecward@wisc.edu ( ecward@wisc.edu)

#### Karen Mittelstadt

Assistant Dean for Academic Affairs (Academic Dean)  
mittelstadt@wisc.edu ( mittelstadt@wisc.edu)  
608-263-5284

#### Karen D. Solheim, PhD, RN

Undergraduate Program Director, Clinical Professor  
kdsolheim@wisc.edu

## ADVISING AND STUDENT SERVICES

#### Katie Bleier

Director of Advising and Student Services  
katie.bleier@wisc.edu ( katie.bleier@wisc.edu)  
608-263-5172

#### Molly Censky

Undergraduate Advisor  
molly.censky@wisc.edu ( molly.censky@wisc.edu)

#### Kate Knudson

Undergraduate Advisor  
kathryn.knudson@wisc.edu ( kathryn.knudson@wisc.edu)

#### Mary Russell

Career Advisor  
mlrussell@wisc.edu ( mlrussell@wisc.edu)

#### Darby Sugar

Undergraduate Advisor and Academic Support Coordinator  
darby.sugar@wisc.edu ( darby.sugar@wisc.edu)

#### Kim Tobin

Undergraduate Advisor  
kctobin@wisc.edu ( darby.sugar@wisc.edu)

## ADMISSIONS AND RECRUITMENT

#### Vacant

Director of Admissions and Recruitment

#### Brent Fisher

Undergraduate Admissions and Recruitment Coordinator  
bjfisher@wisc.edu ( bjfisher@wisc.edu)

## CERTIFICATION/LICENSURE

Earning the bachelor of science in nursing degree is the first step toward becoming a Registered Nurse. Graduates must also take and pass the National Council Licensure Exam (NCLEX-RN) to receive their nursing license and begin their careers as nurses in hospitals, community health and mental health agencies, industrial health centers, nursing homes, family planning centers, crisis care centers, and beyond. A nursing license gives an individual permission to practice nursing, granted by the state where he or she met the requirements.

The School of Nursing works with students as they complete graduation requirements and the two-step process to register for the NCLEX. Specifically the school verifies graduation and assists students as they register for the exam. Most students take the NCLEX within three months of graduation. More than 90 percent of School of Nursing graduates pass the NCLEX on first attempt.

## RESOURCES AND SCHOLARSHIPS

### SIGNE SKOTT COOPER HALL

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## NURSING, BSN (ACCELERATED PROGRAM)

Students who already have a bachelor's degree or higher and are interested in making a career change to nursing can apply to enter this fast-track professional program to earn the bachelor of science in nursing (BSN) in just 12 months.

The Accelerated BSN program is new to UW–Madison. Admission for the first class will open fall 2017 and instruction will begin May 2018.

The program will be intense with students completing approximately 1 credit a week, for a total of 48–50 credits over 12 months. This equates to at least 45 hours of work each week.

Tuition will be a flat rate of \$45,000 for Wisconsin residents, \$60,000 for nonresidents.

## HOW TO GET IN

### SCHOOL OF NURSING REQUIREMENTS

Following are the requirements to be eligible to apply for the Accelerated BSN program:

- Bachelor's degree in a non-nursing field from an accredited institution, completed by the program start date. Students anticipating spring graduation can apply the prior fall; proof of timely progress is required.
- Admission to UW–Madison as a post-undergraduate degree-seeking student (separate application required)
- Minimum college-level cumulative GPA of 2.75
- Completion of the prerequisites listed below with a grade of C or better in each course and a minimum combined GPA of 2.75. The first four prerequisites (science courses) must be completed by the application deadline and within seven years of the program start date. All prerequisites must be complete before the program start date. Prerequisite equivalency information is available on the BSN Prerequisite Course Equivalencies (<https://nursing.wisc.edu/undergraduate/course-equivalencies>) page.
  - a. Chemistry w/Lab
  - b. Microbiology
  - c. Human Anatomy
  - d. Human Physiology
  - e. Psychology (introductory)
  - f. Sociology (introductory)
  - g. Human Growth and Development

**Note:** *Anatomy and physiology may be satisfied by one semester of anatomy and one semester of physiology or by A&P I and II. With the latter option, students must complete both courses at the same institution.*

### UW–MADISON GENERAL EDUCATION REQUIREMENTS

Applicants must also complete the following university-wide General Education Requirements (<http://gened.wisc.edu/Req.htm>). At least two must be completed by the application deadline, and all prerequisites must be completed before the program start date.

1. Communications Part A: Literacy Proficiency
2. Quantitative Reasoning Part A: QR Proficiency
3. Quantitative Reasoning Part B: Enhanced QR Proficiency
4. Ethnic Studies

**Note:** *There is also a Communications Part B requirement; however, it will be satisfied with coursework in the program, so prior completion is not necessary.*

### APPLICATION DATES AND DEADLINES

The program requires two applications: one to UW–Madison, plus a supplemental application to the School of Nursing for the Accelerated BSN program. Both applications open for viewing on August 1. Submission can begin September 1 and the deadline is October 1. Admission decisions will be released in December and students must submit their intent to enroll by March 1.

### TRANSFER CREDIT EVALUATION AND PROOF OF ENROLLMENT

An unofficial transfer credit evaluation to check for completion of the nursing prerequisite courses and the university's General Education Requirements will be completed by the School of Nursing prior to the decision release date. Admission is contingent upon official verification by the UW–Madison Office of Admissions and Recruitment.

Applicants will be required to submit proof of enrollment at the time of application for any prerequisites not yet completed. If enrollment has not opened for a particular course, students will be asked to submit a statement of intent to register that lists the course, institution, dates of instruction, and enrollment date.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

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

### SCHOOL OF NURSING REQUIREMENTS

The bachelor of science in nursing (BSN) degree is a 124-credit curriculum comprised of the core nursing curriculum, as well as general education requirements, nursing prerequisite coursework, and elective courses. The required courses for graduation are listed below. In addition to completing this coursework, students must:

1. Earn a cumulative and nursing GPA of at least 2.5, and
2. Complete at least 30 credits in residence on the UW–Madison campus, and
3. Earn at least 75 of the required 124 degree credits at the intermediate or advanced level

## MAJOR REQUIREMENTS

The new Accelerated BSN program will launch May 2018. The degree requirements, curriculum, and program plan are being finalized by the School of Nursing faculty at this time. Details will be posted to the Accelerated BSN (<https://nursing.wisc.edu/accelerated-bsn>) page of the School of Nursing (<https://nursing.wisc.edu>) website as available.

Following is information on the requirements and curriculum as established thus far:

- Students will complete seven nursing prerequisites prior to entry into the program, namely:
  1. Chemistry with Lab
  2. Microbiology
  3. Human Anatomy
  4. Human Physiology
  5. Psychology (introductory)
  6. Sociology (introductory)
  7. Human Growth and Development
- Students will also complete the university-wide General Education Requirements (GER) of Communications Part A, Quantitative Reasoning Part A, Quantitative Reasoning Part B, and Ethnic Studies prior to entry into the program. The fifth GER of Communications Part B will be completed within the Accelerated BSN curriculum.
- During the 12-months in the Accelerated BSN program, students will complete 48-50 credits of required nursing coursework, including classroom-based active learning courses and experiential learning courses in the clinical environment. This nursing coursework will include Pathology and Pharmacology.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
2. Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
3. Make effective use of technology for patient care, education, and management of health information.
4. Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
5. Use knowledge sources effectively to provide evidence-based care.
6. Identify health disparities and advocate for basic essential health services for all.
7. Allocate health care resources to maximize the health care benefit to clients, families, and community.
8. Assume fiscal and ethical responsibility for clinical practice.
9. Function as a member of the nursing profession within the community and the world.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

The Office of Academic Affairs provides comprehensive academic advising services to students in the Accelerated BSN program. Darby Sugar advises all Accelerated BSN students and can be reached at [darby.sugar@wisc.edu](mailto:darby.sugar@wisc.edu) ( [darby.sugar@wisc.edu](mailto:darby.sugar@wisc.edu)).

### CAREER ADVISING

The school offers career advising services to provide resources and strategies for career planning and placement. This includes workshops and job/internship fairs, resume review, job search resources, and licensure information. Visit the Career Services ([http://academic.son.wisc.edu/studentnet/cs\\_g/career\\_services](http://academic.son.wisc.edu/studentnet/cs_g/career_services)) page of the StudentNet for more information.

## PEOPLE

### ADMINISTRATION

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#### Karen Mittelstadt

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## ADVISING AND STUDENT SERVICES

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### Darby Sugar

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### Mary Russell

Career Advisor  
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## ADMISSIONS AND RECRUITMENT

### Vacant

Director of Admissions and Recruitment

### Brent Fisher

Undergraduate Admissions and Recruitment Coordinator  
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## CERTIFICATION/LICENSURE

Earning the bachelor of science in nursing degree is the first step toward becoming a Registered Nurse. Graduates must also take and pass the National Council Licensure Exam (NCLEX-RN) to receive their nursing license and begin their careers as nurses in hospitals, community health and mental health agencies, industrial health centers, nursing homes, family planning centers, crisis care centers, and beyond. A nursing license gives an individual permission to practice nursing, granted by the state where he or she met the requirements.

The School of Nursing works with students as they complete graduation requirements and the two-step process to register for the NCLEX. Specifically the school verifies graduation and assists students as they register for the exam. Most students take the NCLEX within three months of graduation. More than 90 percent of School of Nursing graduates pass the NCLEX on first attempt.

## RESOURCES/SCHOLARSHIPS

## SIGNE SKOTT COOPER HALL

In fall 2014, the School of Nursing moved to the new Signe Skott Cooper Hall. This \$53.3 million nursing building features world-class technology and innovative educational spaces that will allow the nursing school to address health care's new standard of excellence—high-tech and high-touch methods and practices that result in better patient outcomes and greater satisfaction with care.

## ADVISING AND STUDENT SERVICES

### OFFICE OF ACADEMIC AFFAIRS

The Office of Academic Affairs is the undergraduate dean's office for the School of Nursing. Staff members interpret school regulations, policies, and program requirements; make exceptions around requirements and deadlines; advise prospective and current students; monitor students having academic difficulties; coordinate compliance; facilitate the

program's admissions process; and maintain the official files of students in the school.

## ACADEMIC ADVISING

Academic advising is an essential component of undergraduate education. The primary advising mission in the School of Nursing is to help students identify and clarify their academic pathways and educational goals, and to help them develop meaningful plans to ensure academic success. Advising is an ongoing, caring, and collaborative relationship between advisor and student that provides meaning, guidance, and support throughout the educational process. Every pre-nursing (PRN) and nursing (NUR) student is assigned a professional advisor in the nursing school ([http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors\\_ug.php](http://academic.son.wisc.edu/studentnet/undergrad/advising/advisors_ug.php)). Advising is offered in individual appointments, group advising, and graduation checks for seniors.

## CAREER ADVISING

In addition to professional academic advisors, the School of Nursing has career advising available to help students prepare for a successful career in nursing. Services include resume and job search assistance, online job postings, information sessions, and nursing career fairs.

## ACADEMIC SUPPORT SERVICES

The Nursing Learning Center ([http://academic.son.wisc.edu/studentnet/resources/learning\\_support\\_serv.php](http://academic.son.wisc.edu/studentnet/resources/learning_support_serv.php)) in Cooper Hall is a place where students can gather with other like-minded, focused, and enthusiastic students to improve not only their understanding of the course material but of their own learning styles. Sessions are designed to assist pre-nursing and nursing students in weekly small-group study formats. Current courses supported include anatomy, physiology, pharmacology, and pathology, as well as courses in the nursing curriculum. Workshops and other sessions help students with test preparation, study skills, time management, etc.

## STUDENT ORGANIZATIONS

The School of Nursing encourages and supports students to pursue their interests and form social networks. In addition to numerous associations available to students on the broader campus (including the Aspiring Nurses Association [ANA] for pre-nursing students), there are a number of student-run groups established specifically for current nursing students. These include the Student Nurses' Association, the Multicultural Student Nurses' Organization, the Nurse's Christian Fellowship, the Global Health Interest Group, the Holistic Nursing Group, the Perinatal Interest Group, and the Student Geriatric Interest Group. The purpose of these groups is to give students the opportunity to enhance their experiences related to professional development, social circles, political action, community service, and academic achievement, as well as foster connections between faculty, staff, and students.

## FINANCIAL AID AND SCHOLARSHIPS

The School of Nursing awards more than \$400,000 in scholarships each year to admitted undergraduate nursing students. Awards are based on both academic merit and financial need. Students are invited to apply to nursing specific scholarships, as well as campus-wide or non-nursing scholarships, through the Scholarships@UW-Madison system (<http://www.scholarships.wisc.edu>).

## NURSING, BSN (COLLABORATIVE PROGRAM)

### BSN@HOME

The RN to BSN program, called the BSN@Home (<http://bsnathome.com>) program, is for Registered Nurses who already have an associate's degree or diploma in nursing and wish to earn the bachelor of science in nursing degree.

The curriculum is designed for working adults. Almost all required coursework is completed online. Students can complete the program in as little as a year and a half.

The BSN@Home program is cooperatively administered by six campuses in the University of Wisconsin System: UW–Madison, UW–Eau Claire, UW–Green Bay, UW–Milwaukee, UW–Oshkosh and UW–Stevens Point. Students typically select their home institution based on proximity. All BSN@Home students are required to complete the same core nursing curriculum, but specific admission and degree requirements vary among campuses.

### HOW TO GET IN

## ELIGIBILITY REQUIREMENTS

- Associate's degree in nursing (ADN) or diploma in nursing from an accredited nursing program. Students with an ADN (or equivalent degree) through an international institution are eligible for admission consideration if they have completed the following required coursework. International Nurse Admission Requirements can be downloaded from this page.
- Overall GPA of 2.5 on 4.0 scale
- RN license
- Resident of Wisconsin, upper peninsula of Michigan, and/or contiguous counties in Illinois, Iowa or Minnesota
- Meets university transfer admission requirements (<https://www.admissions.wisc.edu/apply/transfer/requirements.php>) at UW–Madison. Factors considered in admission decisions include:
  - **Cumulative grade point average (GPA):** While the average GPA of admitted transfers is a 3.4, UW–Madison will consider prospective BSN@Home if they have a cumulative GPA of at least 2.5 with steady grade trends and patterns. GPA calculations will include all grades received for repeated courses; the initial grade, as well as grades received in second and subsequent attempts will be included in the GPA calculation.
  - **College-Level Course Preparation:** Students must have completed at least 24 transferable ([https://www.admissions.wisc.edu/apply/transfer/transfer\\_credit.php](https://www.admissions.wisc.edu/apply/transfer/transfer_credit.php)) (college-level) non-nursing credits in addition to the nursing classes they completed in their ADN or nursing diploma program.
  - **High School Record:** Regardless of the number of college credits earned, the high school transcript is required and must show proof of graduation.
  - **Required Courses:** Students must have completed one year each of high school algebra, plane geometry, and college-preparatory math, and two high school years or two college semesters of a single foreign language. Requirements may vary if students graduated high school 1991 or prior.

Contact the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/contact.php>) with specific questions about academic background.

## TO APPLY ADMISSIONS TIMELINE

Students can begin the program in either spring or fall.

- **Fall term application opens:** August 1
- **Spring term application opens:** February 1.
- **Deadlines:** The application is due by 11:59 p.m. Pacific time on the noted deadline dates (<https://www.admissions.wisc.edu/apply/freshman/deadlines.php>).

## REVIEW OF APPLICATIONS

Applications are reviewed by the UW–Madison Office of Admissions and Recruitment. Students will be evaluated on both high school and college records. Admission to the program is selective.

## TO APPLY

Complete the UW System Application for Admission (<https://apply.wisconsin.edu>):

- Intended campus: UW–Madison
- Intended major: BSN@Home/Nursing Collaborative Program

For this program, there is no supplemental application submitted to the School of Nursing.

## UW–MADISON REENTRY ADMISSION

Students who have previously attended UW–Madison as degree-seeking students are eligible to apply to the BSN@Home program by submitting a Reentry Application (<https://www.admissions.wisc.edu/apply/reentry>). Second-degree candidate should select BSN@Home/Nursing Collaborative Program as the intended major. Students who have not previously earned an undergraduate degree through UW–Madison will be readmitted to their previous classification (e.g., Letters & Science). If readmitted to the previous classification, students should email ([bsnadmit@son.wisc.edu](mailto:bsnadmit@son.wisc.edu)) the School of Nursing to request consideration for admission to the BSN@Home program.

Reentry applications will be evaluated by the UW–Madison Office of Admissions and Recruitment. While the Reentry Admissions (<https://www.admissions.wisc.edu/apply/reentry>) site lists university-wide application deadlines, students should submit the application by the following dates to ensure access to open nursing courses:

- **Summer term:** February 1
- **Fall semester:** March 1
- **Spring semester:** October 1

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

#### Requirements Detail

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

## SCHOOL OF NURSING REQUIREMENTS

The bachelor of science in nursing (BSN) degree is a 124-credit curriculum comprised of the core nursing curriculum, as well as general education requirements, nursing prerequisite coursework, and elective courses. The required courses for graduation are listed below. In addition to completing this coursework, students must:

- Earn a cumulative and nursing GPA of at least 2.5, and
- Complete at least 30 credits in residence on the UW–Madison campus, and
- Earn at least 75 of the required 124 degree credits at the intermediate or advanced level

## RN TO BSN (BSN@HOME) MAJOR REQUIREMENTS

Code	Title	Credits
<b>Science</b>		
<i>Chemistry</i>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
Equivalent		
<i>Microbiology</i>		
Select one of the following:		3
MICROBIO 101	General Microbiology	
BIOCHEM 501	Introduction to Biochemistry	
Equivalent		
<i>Human Anatomy</i>		
ANATOMY/ KINES 328	Human Anatomy (or equivalent)	3
<i>Human Physiology</i>		

PHYSIOL 335	Physiology (or equivalent)	5
<i>Pharmacology</i> <sup>1</sup>		
PHM SCI 401	Survey of Pharmacology (or equivalent)	3
<i>Pathology</i> <sup>2</sup>		
PATH 404	Pathophysiologic Principles of Human Diseases (or equivalent)	3
Total Credits		21-22

<sup>1</sup> Most often satisfied by CNP 490 Special Topics in Nursing: Clinical Pharmacology in the BSN@Home program.

<sup>2</sup> Most often satisfied by CNP 490 Special Topics in Nursing: Pathophysiology in the BSN@Home program.

## HUMANITIES AND SOCIAL SCIENCE

Code	Title	Credits
<b>Humanities and Social Science</b>		
<i>Psychology</i>		
PSYCH 202	Introduction to Psychology (or equivalent)	3
<i>Sociology</i>		
Select any introductory Sociology course		3
<i>Human Growth and Development</i>		
Select three credits of Human Growth and Development		3
<i>Humanities</i>		
Select six credits of Humanities		6
<i>Humanities or Social Science</i>		
Select seven credits of Humanities or Social Science		7
Total Credits		22

## MATH

Code	Title	Credits
<b>Math</b>		
<i>College Algebra</i>		
MATH 112	Algebra (or equivalent)	3
Total Credits		3

## ELECTIVES

Code	Title	Credits
<b>Electives</b>		
Select 15-27 credits of electives		15-27
Total Credits		15-27

## NURSING PRIOR LEARNING CREDITS

Prior learning credits are awarded in recognition of the associate's degree in nursing (ADN) or nursing diploma. Students who earned the ADN from a Wisconsin Technical College receive 30 Prior Learning Credits. All other students receive 24.

Code	Title	Credits
<b>Nursing</b>		
NURSING/S&A PHM/ SOC WORK/ THER SCI 105	Health Care Systems: Interdisciplinary Approach	2

NURSING 212	Human Responses to Health and Illness I	4
NURSING 219	Clinical Nursing I	4
NURSING 310	Mental Health and Mental Illness: Implications for Nursing	3
NURSING 312	Human Responses to Health and Illness II	4
NURSING 319	Nursing Care in the Inpatient Setting	4
NURSING 332	Essentials of Family-centered Perinatal and Pediatric Nursing	3
Total Credits		24

## BSN@HOME NURSING COURSEWORK

Code	Title	Credits
<b>Nursing</b>		
CNP 306	Transitions: Practice, Professional and Personal	3
CNP 407	Foundations of Professional Nursing Practice	3
CNP 441	Chronic Care Management	3
CNP 446	Research and Evidence-Based Practice	3
CNP 447	Leadership and Management	3
CNP 453	Information Management and Healthcare Technology	3
CNP 454	Community Health Nursing	3
CNP 519	Capstone Practicum for Registered Nurses	3
NURSING 433	Essentials of Gerontological Nursing <sup>1</sup>	3
Total Credits		27

<sup>1</sup> Gerontology course may be satisfied by credit-by-exam.

## UNIVERSITY DEGREE REQUIREMENTS

### Requirements Detail

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
- Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
- Make effective use of technology for patient care, education, and management of health information.
- Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
- Use knowledge sources effectively to provide evidence-based care.
- Identify health disparities and advocate for basic essential health services for all.
- Allocate health care resources to maximize the health care benefit to clients, families, and community.
- Assume fiscal and ethical responsibility for clinical practice.
- Function as a member of the nursing profession within the community and the world.

## PEOPLE

### ADMINISTRATION

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## ADVISING, STUDENT SERVICES, AND ADMISSIONS

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#### Mary Russell

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## SCHOOL OF PHARMACY

Established by the Wisconsin Legislature in 1883, the "Department of Pharmacy" was the second pharmacy school in the United States associated with a state university. The start was a modest one—a single laboratory and a student body of 28. From the beginning, under the leadership of its first director, Dr. Frederick B. Power, the school became a prominent force in the development of pharmacy as a profession in the state and the country.

The UW–Madison School of Pharmacy was the first in the country to establish a four-year curriculum (optional) leading to the B.S.–Pharmacy degree (1892); in 1960, this became a five-year program. In fall 1997, the four-year, professional-level Doctor of Pharmacy (Pharm.D.) program replaced the B.S.–Pharmacy program. Also offered is the four-year B.S.–Pharmacology & Toxicology program. In fall 1997, the school began to offer the nontraditional Doctor of Pharmacy (Pharm.D.) program, an opportunity for U.S.-licensed pharmacists who are graduates of B.S.–Pharmacy programs accredited by the American Council on Pharmaceutical Education to further their professional education. The school was the first to offer graduate work leading to the master of science and doctor of philosophy degrees in pharmacy; pioneered in pharmaceuticals, history of pharmacy, social studies of pharmacy, and pharmacy administration; and was one of the first to offer a master of science degree with a major in hospital pharmacy.

With an enrollment of more than 500 undergraduate and professional students, the School of Pharmacy is part of the Center for Health Sciences, which includes the School of Medicine and Public Health, the School of Nursing, University Hospital and Clinics, and the State Laboratory of Hygiene. Students have opportunities to interact with other students and professional personnel in related fields as they prepare to meet the health care needs of society.

Recognizing the importance of good communication between pharmacists, patients, and other health care professionals, the school designed the Pharm.D. program to provide pharmacy students with opportunities to develop and improve written and oral communication skills and to understand the sociological and psychological aspects of illness and drug therapy.

Believing that its role in pharmacy education extends beyond the boundaries of the campus, the school has an active continuing education and extension program. Several on-campus educational programs are conducted annually for state pharmacists. Other educational programs are taken directly to pharmacists to help them keep up with the changes occurring in the profession.

## PROFESSIONAL PHARMACY

Pharm.D. graduates are presented with opportunity and challenge: the opportunity to participate in the exciting field of health care and the challenge of expanding the role of the pharmacy professional within this changing system. Pharmacists are important members of the comprehensive health care team; the expertise of pharmacists is vital to the success of the health care team as it designs, implements, and monitors drug therapy for the benefit of patients. Pharmacists use their expertise to keep pace with the rapid changes taking place in the health care system and the growing complexities of providing optimal pharmaceutical care to patients. This care requires that pharmacists be effective health educators. The ultimate success of drug therapy

can depend upon how well patients understand and follow their drug regimens. Therefore, opportunities for the development and improvement of communication skills, both written and oral, are essential components of the Pharm.D. professional curriculum; required and elective courses throughout the curriculum provide valuable practical experience in effective interaction with patients and other health practitioners.

Pharmacy offers many career opportunities. Graduates traditionally have pursued careers in community, hospital, and long-term care pharmacy, the pharmaceutical industry, pharmacy education, and government agencies. Pharmacists serve also in other roles, including managed care, home care, and primary care, to increase the availability and quality of pharmaceutical care.

**Community pharmacy.** Many pharmacists are employed in community pharmacies; these can be independent pharmacies, chain store pharmacies, or health maintenance organization (HMO) pharmacies. Community pharmacy practice usually is general in nature and involves a large ambulatory patient population. Community pharmacists are the most accessible health professionals. They prepare and dispense prescriptions, develop pharmaceutical care plans, counsel patients on the appropriate use of prescription and nonprescription drugs, and maintain patient medication records and profiles. In addition, community pharmacists consult with other members of the health care team and serve as important sources of information for the public. Other opportunities include involvement in business management, marketing strategies, inventory control, and personnel. Pharmacists supervise the activities of pharmacy technicians.

**Hospital pharmacy** practice includes active involvement with inpatient care in hospitals and outpatient care in ambulatory clinics. Hospital pharmacists participate with other health care professionals in the care of patients, obtain medication histories from newly admitted patients, develop pharmaceutical care plans, perform pharmacokinetic drug consultations, monitor drug therapies, educate patients about their drug therapy, administer medications, operate medication distribution systems, and prepare intravenous solutions and other dosage forms.

Hospital pharmacists supervise the activities of pharmacy technicians in purchasing, storing, and distributing drugs to patients. Hospital pharmacists also carry out clinical research and practice in specialized areas of pharmacy, such as nuclear pharmacy, the provision of drug and poison information to other members of the health care team and to the public, infusion therapy, oncological pharmacy, pediatric pharmacy, and psychiatric pharmacy.

**Home care, assisted-living, extended care, and long-term care pharmacy.** Residents in assisted-living, extended care, or long-term care facilities may require pharmaceutical care similar to that found in acute care hospitals, while patients residing at home may require a wide range of pharmaceutical care services.

**Other career opportunities.** Pharmacists are prepared to assume positions in the **pharmaceutical industry**, in areas such as research and discovery, clinical investigation, product formulation, quality control, marketing, and sales. Some pharmacists practice in government agencies, such as the U. S. Public Health Service, the Veterans Administration, the Armed Forces, and the Food and Drug Administration, and in other federal and state agencies. Opportunities for **research and teaching** are available at many colleges and universities, in the pharmaceutical industry, and in some government agencies. Pharmacists with graduate or advanced professional education teach in schools of pharmacy. **Specialization** in nuclear pharmacy, veterinary pharmacy,

technical writing for scientific and professional journals, or administration of state and national professional pharmacy organizations are additional areas that graduates may consider.

**Graduate study.** Well-qualified graduates who wish to prepare themselves for a variety of careers, including university teaching and research, industrial research, and pharmacy administration, will find outstanding opportunities for specialized study and research. The University of Wisconsin–Madison School of Pharmacy provides extensive research facilities and graduate courses in a wide variety of pharmacy-related areas. The M.S. and Ph.D. degrees are conferred upon candidates who have met the requirements of their respective fields of study. Postdoctoral training is available with faculty for those holding the Ph.D. degree, and in the form of residencies and fellowships for those holding the Pharm.D. degree.

## REGISTRATION AS A PHARMACIST

The practice of pharmacy, recognized as a public health profession, is regulated by law. In Wisconsin, as in all states, pharmacy practice is limited to those who are professionally competent and are licensed by the state.

**Educational requirements.** To be eligible for licensure in Wisconsin, a candidate must be a graduate of an accredited school of pharmacy in the United States, or must meet the requirements established by the Wisconsin Pharmacy Examining Board for graduates of pharmacy schools in other countries.

**Internship.** Wisconsin requires the completion of 1,740 hours of internship to qualify for licensure. With proper planning, the Pharm.D. degree at the University of Wisconsin–Madison School of Pharmacy, completed with required clerkships under the supervision of qualified preceptors, can fulfill the internship requirement.

Internship requirements vary from state to state, although credit for internship generally is transferable. A person who plans to intern and/or become licensed in another state should contact the pharmacy examining board of that prospective state for information about the internship and/or licensure requirements of that state.

**Licensing examination.** Following completion of the internship requirement, prospective pharmacists must pass the national examinations (NAPLEX, MPJE) and an examination administered by the Wisconsin Pharmacy Examining Board. The board then issues a registration certificate entitling the holder to practice pharmacy in Wisconsin.

## ACCREDITATION

The Accreditation Council for Pharmaceutical Education (ACPE) (<http://www.acpe-accredit.org>) accredits professional pharmacy degree programs; ACPE membership comes from the American Pharmacists Association (APHA) (<http://www.pharmacist.com>), the National Association of Boards of Pharmacy (NABP) (<http://www.nabp.net>), and the American Association of Colleges of Pharmacy (AACP) (<http://www.aacp.org/Pages/Default.aspx>). The purposes of ACPE are to advance the standard of pharmaceutical education and to accredit schools and colleges of pharmacy.

The School of Pharmacy Pharm.D. program is accredited by:

ACPE (<http://www.acpe-accredit.org>)  
20 North Clark Street, Suite 2500  
Chicago, IL 60602

312-664-3575; fax 312-664-4652  
[info@acpe-accredit.org](mailto:info@acpe-accredit.org) ([info@acpe-accredit.org](mailto:info@acpe-accredit.org))

## PHARMACOLOGY & TOXICOLOGY

The B.S.–Pharmacology & Toxicology program focuses on the biomedical sciences. **Pharmacology** is concerned with the properties, effects, and mechanisms of action of drugs, and with the interactions between chemical agents and biological systems. **Toxicology**, the science of poisons, combines the elements of biology and chemistry with those of many other disciplines to help us understand the harmful effects of chemicals on living organisms.

A major challenge for the **pharmacologist** is to determine how drugs act. This can be carried out at the subcellular and molecular level, the cellular level, the tissue level, the organ level, or the whole-animal level. Pharmacologists also are concerned with the development of new drugs that produce fewer side effects while curing disease, and provide more effective and/or more rapid treatment of disease in humans or animals.

Some pharmacologists are concerned with screening newly discovered drugs or synthesized compounds for potentially useful therapeutic activity, then characterizing that activity. Others conduct research by using drugs (as tools) to probe biological systems. The challenges of this research are to achieve a better understanding of normal bodily functions and to better understand the biological basis of disease.

**Toxicologists** find scientifically sound answers to questions about chemicals that may potentially threaten our health, about pesticides in the food we eat, pollutants in the air we breath, chemicals in the water we drink, and toxic waste sites near our homes. Some toxicologists are concerned with determining the cellular mechanisms by which drugs and chemicals produce toxic effects. Many are involved in subspecialty areas in toxicology research, such as reproductive and developmental toxicology, neurotoxicology, immunotoxicology, and inhalation toxicology. Researchers in these areas utilize both laboratory animals and in vitro systems to examine the cellular, biochemical, and molecular processes underlying toxic responses.

Other researchers are involved in research to define safe exposure limits for new chemicals before they reach the market, or to identify and determine the relative risks to humans of occupational and/or environmental exposure to chemicals. For example, toxicologists in this area are concerned with the adverse effects on humans and animals of long-term exposure to air and water pollutants, food additives, drugs, and agricultural and industrial chemicals. The development of new poisons that are more selective and effective against insects and pests is yet another challenge for the toxicologist; so, too, is the development of new antidotes for the more rapid and effective treatment of poisons by drugs and chemicals.

The B.S.–Pharmacology & Toxicology program receives its accreditation through UW–Madison accreditation by the North Central Association of Colleges and Schools.

## DEGREES/MAJORS/CERTIFICATES

- Pharmaceutical Sciences, B.S. (p. 1552)
- Pharmacology and Toxicology, B.S. (p. 1552)

## ENTERING THE SCHOOL

### ACADEMIC AND ADMISSION POLICIES

School of Pharmacy academic policies (regarding such matters as academic and professional conduct, academic progress, honor roll, pass/fail registration, and independent study coursework) for the Pharm-Tox Program, can be found at Pharm-Tox Po (<https://pharmacy.wisc.edu/student-resources/pharm-tox-handbook>) Policy Handbook (<https://pharmacy.wisc.edu/student-resources/pharm-tox-handbook>) on the school website. It is essential that students enrolled in the School of Pharmacy become familiar with the policies.

### ADMISSION POLICIES AND PROCEDURES

#### Pharm.D. and B.S.-Pharmacology & Toxicology Admission

Admission to both programs is selective and competitive.

An overall cumulative GPA of at least 3.00 (or 3.20 over the most recent 60 semester credits) is required for admission to the Pharm.D. program.

Completion of the required School of Pharmacy course requirements does not guarantee admission. Each applicant's admission credentials are considered not only on their own merit, but also in comparison with the credentials of other applicants.

Information about the required elements of the applications can be found on the School of Pharmacy website (<https://pharmacy.wisc.edu/programs/pharm-tox>).

## RESOURCES

### FINANCIAL AID

Students who seek financial assistance should contact the UW–Madison Office of Student Financial Aid (<http://www.finaid.wisc.edu>) for financial aid applications and information about scholarships, loans, grants (not available to Pharm.D. students), work-study programs, and student employment.

### LOANS

The School of Pharmacy administers limited short-term loan funds available to students enrolled in the school. The maximum amount of outstanding short-term loans is \$2000, with repayment expected as soon as possible, usually within one year of the date of the loan. Short-term loans are meant to assist students until funds from major sources arrive.

### SCHOOL OF PHARMACY SCHOLARSHIPS

About 120 School of Pharmacy students are awarded scholarships each year, in varying amounts. Only students who have been admitted to the Pharm.D. program or the B.S.–Pharmacology & Toxicology program may apply for scholarships. Applications are available from the School of Pharmacy Student Services Office during the spring semester, and must be submitted by a specified date. The School of Pharmacy Scholarships Committee evaluates scholarship applicants on the bases of academic achievements, personal and professional accomplishments, and a written essay. Applicants are notified of the committee's decisions during the summer, and scholarships are presented at the annual Scholarships and Awards Ceremony each September.

### GRADUATION AWARDS

Annual awards to students graduating from the School of Pharmacy recognize scholastic achievement, leadership qualities, involvement in student organizations, professional potential, and general achievements. The awards program is supported by professional organizations, School of Pharmacy alumni, and the pharmaceutical industry. Some awards carry financial remuneration. Awards are presented at the Hooding Ceremony (Pharm.D. graduates) and at the graduation reception (B.S.–Pharmacology & Toxicology graduates) each May.

Contact the School of Pharmacy Student and Academic Affairs Office for information about the scholarships and awards administered by the school.

### MINORITY AFFAIRS

The primary goals of the Multicultural Affairs Program in Pharmacy (MAPP) are to identify, recruit, admit, retain, and graduate students of color who are interested in the pharmaceutical professions, and to encourage the full participation of students of color in pre-professional and professional life.

MAPP focuses on the early identification and continuous development of School of Pharmacy and School of Pharmacy students. To accomplish these goals, MAPP and the diversity coordinator collaborate to serve as the bridge between pre–School of Pharmacy and School of Pharmacy admission and retention activities, by providing and disseminating information, by promoting activities that are designed to enlighten students about university resources, and by encouraging leadership development and academic success. Advanced Opportunity Program (AOP) scholarships, based upon need, are available to students in the School of Pharmacy.

The School of Pharmacy is committed to admitting a diverse student body, to help students prepare to become productive and involved members of an increasingly complex and diverse society. Applicants are encouraged to share information about their own unique backgrounds and experiences with the admissions committee (e.g. gender, racial/ethnic/cultural heritage, socioeconomic class, age, first-generation college student, geography, historical underrepresentation, multicultural and/or international experience, sexual identity/orientation).

### ROTC

The university offers courses for men and women leading to officer commissions in the U.S. Armed Forces. Details may be obtained from the Navy, Air Force, and Army campus ROTC programs. See Military Training Programs (p. 1169) in this catalog.

### STUDENT ORGANIZATIONS

Pharmacy students will find many organizations open to them, both in the school and across the UW–Madison campus. For more information about Pharmacy student groups, see this link (<https://pharmacy.wisc.edu/student-organizations>).

### FACILITIES

The School of Pharmacy is located in Rennebohm Hall, the state-of-the-art pharmacy building. Rennebohm Hall is located on the west side of campus, near University Hospital and Clinics and Health Sciences Learning Center. The School of Pharmacy provides students and faculty

with the finest possible physical environment for professional pharmacy and for research in pharmaceutical fields of study.

The combination of small-enrollment courses and the availability of modern apparatus, equipment, computers, and laboratories creates optimal educational opportunities. School of Pharmacy students may take advantage of the resources not only of the school, but also of other schools and colleges on campus.

For Pharm.D. students, community and hospital pharmacies serve as clinical sites for the required and elective clerkships in the professional curriculum. Through these experiences, students become acquainted with actual pharmacy practice as they work under the supervision of registered pharmacists, who serve as preceptors. Throughout the Pharm.D. curriculum, students participate in an active program that is focused on the patient and the development of pharmacist-patient communication.

## LIBRARIES

The Ebling Library (<http://ebling.library.wisc.edu>) is located in Health Sciences Learning Center (HSLC), 750 Highland Avenue, directly across the street from Rennebohm Hall. A skywalk connects Rennebohm Hall to the HSLC. Ebling Library opened in June 2004 and combines the collections of the three former Health Sciences Libraries on the UW–Madison campus: the former F. B. Power Pharmaceutical Library; the former F. L. Weston Clinical Sciences Center Library; and the former William S. Middleton Health Sciences Library. The library's collection includes journals, books, and other materials related to pharmacy (including pharmacy, pharmacology, toxicology, herbals, and the history of pharmacy), nursing, medicine and allied health. Many journals and books of interest to pharmacy students are available full-text online through the campus computer network. Most materials in the library can be checked out with a valid UW–Madison student identification card.

Library staff members are available to help students locate information, assist with the development of research strategies, provide instruction for database searching, and help with the evaluation of materials. Through electronic reserves, library staff post course exams, lecture notes and handouts, journal articles, book chapters, and audio files, as requested by instructors.

The Ebling Library maintains a selection of brochures and handouts pertaining to residency and career opportunities. The library's website (<http://ebling.library.wisc.edu/pharmacy>) includes links to job openings, sample resumes and cover letters, and educational opportunities.

## RESEARCH FACILITIES AND EQUIPMENT

The School of Pharmacy provides graduate students and other students enrolled in independent study projects laboratory space, instruments, and supplies necessary to conduct scientific research. Among the instruments available to students are two nuclear magnetic resonance spectrometers, recording ultraviolet and infrared spectrophotometers, spectrophoto-fluorometers, several modern mass spectrometers, gas chromatographs and high-pressure liquid chromatographs, liquid scintillation spectrometers, gamma counters, a scanning laser densitometer, ultracentrifuges, and microscopes. Also available are a peptide synthesizer, an oligonucleotide synthesizer, equipment for small-scale fermentation, numerous tissue culture laboratories, and other pieces of specialized equipment necessary to conduct research. Animal care facilities are available for a variety of terrestrial and aquatic species. Additional facilities and resources within the School of Pharmacy include cold rooms, an electronics shop, and a well-provisioned stockroom.

Computer specialists are available to offer individualized tutoring and group classes. Other campus resources, such as the Biotron, a system of controlled environmental facilities, and core instrumentation, microscopic, and biotechnology facilities, also are available to students.

## SCHOOL OF PHARMACY

### DEGREES/MAJORS/CERTIFICATES

- Pharmaceutical Sciences, B.S. (p. 1552)
- Pharmacology and Toxicology, B.S. (p. 1552)

## PHARMACEUTICAL SCIENCES, B.S.

The B.S. in pharmaceutical sciences **is not a major**, but rather is an internal degree granted to current doctor of pharmacy (Pharm.D.) students after they complete their second year of the Pharm.D. program. In order to qualify for the B.S. in pharmaceutical sciences, students must have attended UW–Madison prior to attending pharmacy school at Wisconsin, and must meet all degree requirements. More detailed information about this degree may be found on the school website (<https://pharmacy.wisc.edu/programs/pharmd/curriculum/bs-ps>).

Students interested in pursuing an **undergraduate** degree option offered by the School of Pharmacy may want to investigate the B.S. Pharmacology/Toxicology (p. 1552) Program. This interdisciplinary major in the biomedical sciences can serve as a foundation for graduate study, for health professional school (e.g., medical; pharmacy; dental; veterinary, and so on), or for entry-level scientific employment.

## PHARMACOLOGY AND TOXICOLOGY, B.S.

**Pharmacology and toxicology** is an undergraduate major offered through the School of Pharmacy; successful completion of program requirements leads to the Bachelor of Science–Pharmacology and Toxicology degree.

**Pre–pharmacology/toxicology** studies involve the completion of at least 60 credits and the fulfillment of all prerequisite coursework. This typically takes two academic years (i.e., freshman and sophomore years) to complete. Prerequisite coursework can be done at UW–Madison or at most accredited colleges and universities. The School of Pharmacy website (<http://www.pharmacy.wisc.edu>) provides information regarding which courses at various colleges and universities fulfill Wisconsin's pre–pharmacology/toxicology course requirements. Questions about the transferability of courses from any college or university to UW–Madison can be addressed to the School of Pharmacy Undergraduate Admissions Office ([admissions@pharmacy.wisc.edu](mailto:admissions@pharmacy.wisc.edu)) or, for students at UW–Madison, to the pre–School of Pharmacy advisor. At UW–Madison, pre–pharmacology/toxicology students usually enroll in the College of Letters & Science; however, their advisor is the pre-School of Pharmacy advisor whose office is located at the School of Pharmacy. It is important to plan a sound program and to stay up-to-date with admission requirements and program changes.



## HOW TO GET IN

See the School of Pharmacy Academic and Admission Policies (p. 1551).

## APPLICATION

**Application to the B.S. Pharmacology/Toxicology is required as the program's size is limited.** Students (both at UW–Madison and at other institutions) typically apply to the program in February of their sophomore year for subsequent fall semester admission; students are not admitted at any other time of the year. (*Note that potential transfer students must also apply to UW–Madison itself* (<https://www.admissions.wisc.edu/apply/transfer/deadlines.php>)). Students are notified by the end of March regarding their admission status.

To strengthen applications for admission to the B.S. Pharmacology/Toxicology program and demonstrate their preparedness for this rigorous academic major, applicants are encouraged to enroll in course loads of 14-16 credits per semester during pre-Pharmacology/Toxicology studies.

To be eligible to apply, students must complete the following courses by the end of the summer semester prior to entering the program. Potential transfer students from a wide variety of regional institutions can find course equivalents (from their current university/college) on this School of Pharmacy webpage (<https://pharmacy.wisc.edu/programs/pharm-tox/admissions/transfers/equivalencies>).

## BIOLOGY

Code	Title	Credits
Select one of the following options: 10-13		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
Total Credits		10-13

## CHEMISTRY

Code	Title	Credits
Select one of the following: 5-9		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
Additional Requirements:		
CHEM 343	Introductory Organic Chemistry	3

CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Intermediate Organic Chemistry	3
Total Credits		13-17

## MATH

Code	Title	Credits
Select one of the following options: <sup>1</sup>		
A minimum score of 4 on the AP Calculus AB exam		
A minimum score of 4 on the AP Calculus BC exam <sup>2</sup>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	10

<sup>1</sup> MATH 211 Calculus does not fulfill this Math requirement.

<sup>2</sup> This option provides credit for both MATH 221 Calculus and Analytic Geometry 1 & MATH 222 Calculus and Analytic Geometry 2.

## PHYSICS

Code	Title	Credits
Select one of the following: 4-5		
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Total Credits		4-5

## COMMUNICATION

The UW–Madison Communication "A" requirement must be fulfilled.

## SOCIAL SCIENCE

Any course that qualifies as social science (S) credit, 3–6 credits, required.

## OTHER COLLEGE COURSES

Sixty (60) credits must be completed before the first semester in the program/degree.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 17) section of the *Guide*.

**Requirements Detail**

General	• Breadth—Humanities/Literature/Arts: 6 credits
Education	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

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

**SCHOOL OF PHARMACY REQUIREMENTS**

The School of Pharmacy offers one undergraduate degree, the bachelor of science in pharmacology and toxicology. Prerequisite coursework (<https://pharmacy.wisc.edu/programs/pharm-tox/admissions/prerequisites>) for admission to the B.S. "PharmTox" major includes a set of math and science courses and a set non-math/science courses and the achievement of at least 60 undergraduate credits by the end of the summer prior to fall entrance into the program. Once admitted to the program, students complete the **Pharmacology and Toxicology curriculum** (<https://pharmacy.wisc.edu/programs/pharm-tox/curriculum>) as well as second-semester introductory physics (via PHYSICS 104 General Physics, PHYSICS 202 General Physics, or PHYSICS 208 General Physics). The latter requirement is a School of Pharmacy requirement for the degree but is not considered coursework in the major.

**B.S.—PHARMACOLOGY & TOXICOLOGY CURRICULUM**

Students in the pharmacology and toxicology program largely have a semester-by-semester map to follow to complete their requirements in the major. However the major's required statistics course may be taken at any point in time. The laboratory-based Advanced Independent Study may be taken in semester 1, 2, or 3 of the four-semester curriculum. See the following course list for details.

**COURSES THAT CAN BE TAKEN AT ANY TIME**

Code	Title	Credits
Statistics (listed in order of popularity) Select one of the following:		
STAT 371	Introductory Applied Statistics for the Life Sciences	3-4
STAT 301	Introduction to Statistical Methods	
BOTANY 575	Special Topics (Introduction to Modern Statistical Methods for Biologists)	1
STAT/B M I 541	Introduction to Biostatistics	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	2
Independent Study		

Must be completed in semester 1, 2, or 3 of the PharmTox curricular sequence. Must have prior approval to meet PharmTox major curriculum requirements. A wet-lab basic science experience available in a variety of academic departments can fulfill the requirement.

**MAJOR REQUIREMENTS**

Code	Title	Credits
<b>Junior Fall Semester</b>		
BIOCHEM 507	General Biochemistry I	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology	2
Select one of the following options:		5
PHYSIOL 335	Physiology (Most common selection)	5
BIOCORE 485 & BIOCORE 486	Organismal Biology and Organismal Biology Laboratory	
Electives		5
Total Credits		15

Code	Title	Credits
<b>Junior Spring Semester</b>		
BIOCHEM 508	General Biochemistry II	3
PATH 404	Pathophysiologic Principles of Human Diseases	3
PHM SCI 679	Pharmacology and Toxicology Seminar <sup>1</sup>	1
Select one of the following:		3-10
GENETICS 466	Principles of Genetics	3
GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2 <sup>2</sup>	
BIOCORE option (includes the following 4 courses) <sup>3</sup>		3-4
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383 & BIOCORE 384	Cellular Biology and Cellular Biology Laboratory	
Suggested to take Statistics course this semester		3-4
Total Credits		13-21

<sup>1</sup> Students need to take PHM SCI 679 in both the junior and senior year; the course is repeatable for credit.

<sup>2</sup> If students choose GENETICS 467 & GENETICS 468, 3 credits will count towards electives in the PharmTox Major.

<sup>3</sup> Students choosing the BIOCORE option (for the Genetics requirement) will typically have already completed this requirement in their Sophomore year.

Code	Title	Credits
<b>Senior Fall Semester</b>		
PHM SCI/PHMCOL-M 521	Pharmacology I	3
BIOCHEM/PHMCOL-M/ZOOLOGY 630 or PHM SCI 623	Cellular Signal Transduction Mechanisms Pharmacology III	3

PHM SCI/ M&ENVTOX/ MEDICINE/ ONCOLOGY/PATH/ PHM COL-M/ POP HLTH 625	Toxicology I	3
Suggested to take 699 (Advanced Independent Study) by this semester at the latest; earlier 699 enrollment is strongly encouraged		2
Electives		4
Total Credits		15

Code	Title	Credits
<b>Senior Spring Semester</b>		
PHM SCI/PHM COL-M 522	Pharmacology II	3-4
PHM SCI/ M&ENVTOX/ MEDICINE/PATH/ PHM COL-M/ POP HLTH 626	Toxicology II	3
PHM SCI 679	Pharmacology and Toxicology Seminar <sup>1</sup>	1
Electives		8
Total Credits		15-16

<sup>1</sup> Students need to take PHM SCI 679 in both the junior and senior year; the course is repeatable for credit.

## ELECTIVES IN THE MAJOR

Students must complete at least 5 elective credits in the pharmacology/toxicology major. Electives in the pharmacology/toxicology major are available within the School of Pharmacy and in many departments (**the currently approved elective courses are found in the list below**). It is suggested that students select electives in consultation with their advisor. Another option for fulfilling a portion or all of these 5 credits are additional laboratory-based independent study (i.e., 699) credits; as with the required 2 credit 699 in the pharmacology/toxicology major, additional 699 credits must be approved by the PharmTox program (unless they are done within the same laboratory that was originally approved).

### Pharmaceutical Sciences and Pharmacy Course List

Code	Title	Credits
PHM SCI 420	Introduction to Drug Action and Drug Delivery I	4
PHM SCI 421	Introduction to Pharmacodynamics and Pharmacokinetics	4
PHM SCI/B M E 430	Biological Interactions with Materials	3
PHM SCI 531	Medicinal Chemistry I	2
PHM SCI 532	Medicinal Chemistry II	2
PHM SCI 691	Senior Thesis	2
PHM SCI 692	Senior Thesis	2
PHM SCI 768	Pharmacokinetics	3
PHM SCI 780	Principles of Pharmaceutical Sciences	3

PHM SCI 786	Natural Product Synthesis, Biosynthesis and Drug Discovery	3
PHARMACY 800	Research Ethics: Scientific Integrity and the Responsible Conduct of Research	2

### Anatomy

Code	Title	Credits
ANATOMY/ KINES 328	Human Anatomy	3
ANATOMY/ KINES 329	Human Anatomy-Kinesiology	2
ANATOMY 675	Topics in Anatomy	1-3

### Animal Sciences

Code	Title	Credits
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI/ANATOMY/ PHYSIOL 725	Muscle Biology	2

### Biochemistry

Code	Title	Credits
BIOCHEM/ NUTR SCI 510	Biochemical Principles of Human and Animal Nutrition	3
BIOCHEM 550	Topics in Medical Biochemistry	2
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3

### Biology Core Curriculum

Code	Title	Credits
BIOCORE 587	Biological Interactions	3

### Biomedical Engineering

Code	Title	Credits
B M E/PHM SCI 430	Biological Interactions with Materials	3
B M E/CBE 783	Design of Biological Molecules	3

### Chemical and Biological Engineering

Code	Title	Credits
CBE/B M E 783	Design of Biological Molecules	3

### Chemistry

Code	Title	Credits
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4

### Dairy Science

Code	Title	Credits
DY SCI/AN SCI 434	Reproductive Physiology	3

**Environmental Studies (Nelson Institute for Environmental Studies)**

Code	Title	Credits
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/HIST SCI/ MED HIST 513	Environment and Health in Global Perspective	3

**Food Science**

Code	Title	Credits
FOOD SCI 550	Fermented Foods and Beverages	2

**Genetics**

Code	Title	Credits
GENETICS 545	Genetics Laboratory	2
GENETICS/BOTANY/ HORT 561	Introductory Cytogenetics	2-3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3

**History of Science**

Code	Title	Credits
HIST SCI/ENVIR ST/ MED HIST 513	Environment and Health in Global Perspective	3
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3

**Horticulture**

Code	Title	Credits
HORT/PATH-BIO 500	Molecular Biology Techniques	3

**Kinesiology**

Code	Title	Credits
KINES/ ANATOMY 328	Human Anatomy	3
KINES/ ANATOMY 329	Human Anatomy-Kinesiology	2

**Math**

Code	Title	Credits
MATH 605	Stochastic Methods for Biology	3

**Medical History & Bioethics**

Code	Title	Credits
MED HIST/ PHILOS 505	Justice and Health Care	3
MED HIST/HIST SCI/ HISTORY 507	Health, Disease and Healing I	3-4
MED HIST/ ENVIR ST/ HIST SCI 513	Environment and Health in Global Perspective	3
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/HIST SCI/ POP HLTH 553	International Health and Global Society	3

MED HIST 559	Topics in Ethics and History of Medicine	3
MED HIST 610	Regenerative Medicine Ethics and Society	1-3

**Medical Microbiology & Immunology**

Code	Title	Credits
M M & I 301	Pathogenic Bacteriology	2
M M & I/MICROBIO/ PATH-BIO 528	Immunology	3
M M & I/PATH- BIO 529	Immunology Laboratory	2
M M & I/ BIOCHEM 575	Biology of Viruses	2

**Medical Physics**

Code	Title	Credits
MED PHYS/ H ONCOL 410	Radiobiology	2-3

**Microbiology**

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology	1
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3

**Neuroscience**

Code	Title	Credits
NTP/PHYSIOL/ PSYCH/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3

**Oncology**

Code	Title	Credits
ONCOLOGY 401	Introduction to Experimental Oncology	2
ONCOLOGY/ MICROBIO 545	Topics in Biotechnology	1

**Pathobiological Sciences**

Code	Title	Credits
PATH-BIO/HORT 500	Molecular Biology Techniques	3

**Pharmacology**

Code	Title	Credits
PHMCOL-M 710	Cytosolic and Nuclear Signaling Mechanisms	2

**Philosophy**

Code	Title	Credits
PHILOS/ MED HIST 515	Public Health Ethics	3

**Physiology**

Code	Title	Credits
PHYSIOL/ NTP/PSYCH/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3
PHYSIOL 533	Molecular Physiology	2

**Psychology**

Code	Title	Credits
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH/ ZOOLOGY 523	Neurobiology	3
PSYCH/NTP/ PHYSIOL/ ZOOLOGY 524	Neurobiology II: An Introduction to the Brain and Behavior	3

**Population Health Sciences**

Code	Title	Credits
POP HLTH/ ENVR ST 502	Air Pollution and Human Health	3
POP HLTH/HIST SCI/ MED HIST 553	International Health and Global Society	3
POP HLTH/ GENETICS/ MD GENET 888	Public Health Genomics	1

**Toxicology (Molecular & Environmental Toxicology)**

Code	Title	Credits
M&ENVTOX/ENTOM/ F&W ECOL/PL PATH/ SOIL SCI 606	Colloquium in Environmental Toxicology	1
M&ENVTOX/ CIV ENGR/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 632	Ecotoxicology: The Chemical Players	1
M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 633	Ecotoxicology: Impacts on Individuals	1
M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1

**Zoology**

Code	Title	Credits
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3

ZOOLOGY/ NTP/PHYSIOL/ PSYCH 524	Neurobiology II: An Introduction to the Brain and Behavior	3
ZOOLOGY 570	Cell Biology	3

**GRADUATION REQUIREMENTS**

1. Completion of a minimum of 120 degree credits.
2. Completion of pre-pharmacology/toxicology course requirements.<sup>1</sup>
3. Completion of courses required in the pharmacology and toxicology major curriculum (including at least 2 credits of approved laboratory-based biomedical research) and 5 credits of electives in the major.
4. Completion of nonmajor curriculum graduation course requirements.<sup>1</sup>
5. Fulfillment of the grade point average requirements as stated in the School of Pharmacy academic policies.
6. Enrollment at UW-Madison for a minimum of 30 credits, with a cumulative GPA of 2.0. The last 30 credits for the degree must be completed while enrolled in the UW-Madison School of Pharmacy.

<sup>1</sup> Any course that meets B.S.-Pharmacology & Toxicology course requirements must be taken for a letter grade, unless the course is, by definition, a credit/no credit course. No course that meets any B.S.-Pharmacology & Toxicology course requirement may be taken pass/fail. "Any course requirement" means:

1. any pre-pharmacology/toxicology course requirement,
2. any B.S.-Pharmacology & Toxicology major curriculum course requirement,
3. any B.S.-Pharmacology & Toxicology non-major curriculum graduation course requirement, and
4. the B.S.-Pharmacology & Toxicology electives in the major requirement.

**UNIVERSITY DEGREE REQUIREMENTS****Requirements Detail**

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

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

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

**LEARNING OUTCOMES**

1. Demonstrate a knowledge and understanding of the supportive biomedical fields of Biochemistry, Genetics, Physiology, Pathophysiology and Statistics.

2. Demonstrate a knowledge and understanding of the major fields of Pharmacology and Toxicology and show an ability to evaluate, interpret, critique and discuss published scientific findings.
3. Perform laboratory techniques and procedures, interpret the results and present in a written form suitable for submission for publication.
4. Formulate a research question, design experimental procedures and provide evidence-based support in a written grant application that contributes to the knowledge in a selected field.
5. Conduct laboratory-based research for an independent project, formulate an oral scientific presentation and deliver the presentation to peers.
6. Apply statistical methods in preparing and interpreting scientific findings.
7. Apply ethical principles in conducting scientific research.
8. Demonstrate an ability to collaborate with peers in scientific endeavors.

## ADVISING AND CAREERS

### ADVISING

#### PROSPECTIVE STUDENTS

The School of Pharmacy's **Student & Academic Affairs (SAA) Office** provides advising to undergraduates and high school students interested in learning more about the B.S. Pharmacology & Toxicology ("PharmTox") Program; appointments may be made by calling 608-262-6234. Advising, available at SOAR for entering UW–Madison freshmen as well, typically includes curriculum planning, career exploration, and, when the time arises, supports students in creating high quality applications to the program. SAA can connect prospective undergraduate students with juniors and seniors in the program, and, as appropriate, with PharmTox alumni. **Advising resources for prospective students** considering the PharmTox major may be found at this website (<https://pharmacy.wisc.edu/student-academic-affairs/advising/prospective-students>).

#### CURRENTLY ENROLLED B.S.–PHARMACOLOGY & TOXICOLOGY STUDENTS

Once admitted to the major, students receive advising from the PharmTox faculty director or from School of Pharmacy (SoP) staff who work with students in the program. Reasons to see an advisor, what to do to maximize an advising appointment, and SoP advising contacts may be explored at this website (<https://pharmacy.wisc.edu/student-academic-affairs/advising/current-students>). An August new student orientation (typically consisting of two half-days of programming) is led by the PharmTox faculty director, staff, and seniors in the program. Juniors are connected to seniors for peer mentoring and tutoring. Students in the major are often commonly connected to PharmTox alumni who can help them explore educational and career paths.

### CAREERS

The PharmTox program can provide a launching point for a wide variety of graduate work, careers and work environments (<https://pharmacy.wisc.edu/programs/pharm-tox/careers-in-pharm-tox>). Statistical information about *immediate* post-degree work or advanced degree placement for alumni in the last decade may be found on the School website (<https://pharmacy.wisc.edu/programs/pharm-tox/student-outcomes>). Due in part to its small size, the program has strong connections with its 300+ alumni who are located across the country

and across the globe. These alumni can be influential in connecting with current students, allowing current students access to conversations with those in the fields to which they aspire. More detailed career information (including *current* placement of PharmTox alumni, 1986–present) may be found by contacting the PharmTox faculty director and/or SoP staff who help administer the program.

## PEOPLE

### FACULTY DIRECTOR FOR THE PHARMACOLOGY-TOXICOLOGY PROGRAM; SCHOOL OF PHARMACY ASSOCIATE DEANS

Oakes, Steven (Director)

de Villiers, Melgardt (Associate Dean for Academic Affairs)

Kopacek, Karen (Associate Dean for Student Affairs)

**The Pharmacology-Toxicology program is interdisciplinary and involves coursework from multiple departments. The listing below only provides School of Pharmacy faculty and staff who are involved in the program.**

#### PROFESSORS

Clagett-Dame, Margaret

Heideman, Warren

Johnson, Jeffrey

Li, Lingjun

Marker, Paul

Trepanier, Lauren

#### ASSOCIATE PROFESSORS

Bashirullah, Arash

Collier, Lara

Vezina, Chad

#### ASSISTANT PROFESSORS

Lakkaraju, Aparna

#### ACADEMIC STAFF INVOLVED IN ADVISING OR TEACHING IN THE PROGRAM

Niemeyer, Ken

Rosen, Elizabeth

Schneider, Melanie (pre-Pharmacology/Toxicology advisor)

Zwaska, Amy (pre-Pharmacology/Toxicology advisor)

# WISCIENCE

## SUPPORT FOR SCIENCE UNDERGRADUATES

UW–Madison offers a wealth of opportunities in the natural sciences for undergraduate students. WISCIENCE undergraduate courses and programs are designed to enhance and complement natural science academic programs. WISCIENCE offers first-year courses such as *Exploring Biology*, *Exploring Service in Science*, and *Secrets of Science*, which support a larger understanding of the principles of science and of the opportunities available at UW–Madison. Courses for more experienced science students promote deeper engagement beyond the classroom. The *Entering Research* course series supports undergraduate research experiences, and the *Engage Children in Science* service learning course trains students to lead afterschool science clubs in the community.

The breadth of opportunities for undergraduates at UW-Madison is particularly rich in the biological sciences, with more than thirty biology-related undergraduate majors offered across six different schools/colleges on campus. WISCIENCE supports students as they navigate and take advantage of this breadth, providing programs such as the BioHouse (<https://www.housing.wisc.edu/biohouse>) residential learning community, STEM Immersion Bootcamp, and the BioCommons (a community and learning space at Steenbock Library and online at [biology.wisc.edu](http://www.biology.wisc.edu) (<http://www.biology.wisc.edu>)).

## ADVANCING HIGHER EDUCATION IN THE NATURAL SCIENCES

WISCIENCE promotes cross-college collaboration among university educators around issues in science education, including teaching for diversity. WISCIENCE offers events, learning communities, consulting and other teaching and learning resources for faculty/staff, educators in the natural sciences, as well as a Teaching Fellows training program for graduate students and postdoctoral scholars. WISCIENCE also provides mentor training using the Entering Mentoring curriculum and coordinates UW–Madison mentor/mentee training efforts with the National Research Mentoring Network. A resource center for university educators is located at 445 Henry Mall, Room 118.

## SCIENCE OUTREACH AND COMMUNITY ENGAGEMENT

WISCIENCE initiates and supports outreach efforts to improve K–12 science education, prepare future science undergraduates, and encourage general public engagement with the natural sciences. Outreach programming ranges from research experiences for pre-college students from underrepresented groups to professional development courses and experiences for K-12 science teachers. Through the Adult Role Models in Science program, WISCIENCE collaborates with local afterschool programs and schools to implement science clubs and family science events. WISCIENCE also facilitates cross-campus collaboration and helps provide support for the Science Alliance (<http://www.science.wisc.edu>).

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