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

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

**EQUIPPING STUDENTS FOR 21ST-CENTURY CAREERS**

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

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

**DEGREES/MAJORS/CERTIFICATES**

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

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

- Agronomy, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/agricultural-applied-economics/agricultural-applied-economics-bs)
- Biochemistry, B.S. (CALS) (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/biochemistry/biochemistry-bs)
- Biology, B.S. (CALS) (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/biology-bs)
- Entomology, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/entomology/entomology-bs)
- Forest Science, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/forest-science/forest-science-bs)
- Genetics, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/genetics/genetics-bs)
- Horticulture, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/horticulture/horticulture-bs)
- Individual Major, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/individual-major-bs)
- Landscape Architecture, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/landscape-architecture/landscape-architecture-bs)
- Landscape Architecture, BSLS (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/landscape-architecture/landscape-architecture-bsa)
- Microbiology, B.S. (CALS) (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/bacteriology/microbiology-bs)
• Nutritional Sciences, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/nutritional-sciences-bs)
• Nutritional Sciences, B.S. Dietetics (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/nutritional-sciences-bs-dietetics)
• Plant Pathology, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/plant-pathology/plant-pathology-bs)
• Poultry Science, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/animal-sciences/poultry-science-bs)
• Soil Science, B.S. (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/soil-science/soil-science-bs)

CERTIFICATE PROGRAMS

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

• Certificate in Business Management for Agricultural and Life Sciences (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/agricultural-applied-economics/business-management-for-agricultural-life-sciences-certificate) (restricted to CALS students)
• Certificate in Development Economics (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/agricultural-applied-economics/development-economics-certificate)
• Certificate in Global Health (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate)

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

PEOPLE

CALS DEAN AND DIRECTOR

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

ACADEMIC DEAN’S OFFICE

CALS Office of Academic Affairs
116 Agricultural Hall
1450 Linden Drive
Madison, WI 53706
academicaffairs@cals.wisc.edu
608-262-3003

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

ACADEMIC AND CAREER ADVISING

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

TRANSITIONAL ADVISING AND OUTREACH SERVICES (TAOS)

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

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

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

DEAN ON CALL

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

CAREER SERVICES

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

ENTERING THE COLLEGE

ADMISSION

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

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

TRANSFER STUDENTS

Many students transfer into the College of Agricultural and Life Sciences from other schools and colleges at UW–Madison, from elsewhere in the
Special student classification is available from the Division of Continuing Studies. Special student classification is currently on hiatus. Information about the University of Wisconsin–Madison Special student classification is available from the Office of Academic Affairs, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003; see also this website (http://www.cals.wisc.edu/academics/admissions/transfer-resources).

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

ON-CAMPUS TRANSFER

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

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

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

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

SPECIAL STUDENTS

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

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

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

POLICIES AND REGULATIONS

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

POLICY ON ADMISSION TO RESTRICTED-ENROLLMENT MAJORS

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

DEGREES

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

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

REGISTRATION ISSUES

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

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

Course Numbers. Freshmen and sophomores are permitted to take courses for which they meet the prerequisites; courses numbered from 1 to 299 may be taken for credit by undergraduates only, those numbered from 300 to 699 are open for credit to both undergraduates and graduates; those numbered from 700 to 999 are open to undergraduates only with permission of the instructor.

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

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

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

**Pass/Fail Privilege**

a. All undergraduate students are eligible to take a course on a pass/fail basis if they request the option prior to the deadline and are in good academic standing at the time they request pass/fail. When a course is taken on a pass/fail basis, the instructor reports a letter grade, which is converted by the registrar to an S (satisfactory) or U (unsatisfactory). The grade of S shall be recorded by the registrar in place of instructors’ grades of A, AB, B, BC, or C. The grade of U shall be recorded by the registrar in place of instructors’ grades of D or F. Neither the S nor the U is used in computing the grade point average. A student must earn at least a C to receive credit for the course. In addition to the S or U notation, the student transcript includes the symbol # for courses taken on a pass/fail basis.

b. The following conditions apply to pass/fail courses:
   i. **Deadline to apply:** Students may submit pass/fail requests via their Student Center from the time that they register until midnight on the Friday at the end of the fourth week of fall and spring semesters. (For modular and summer session courses, pass/fail requests must be submitted by midnight Friday of the week in which the session is one-fourth completed). Students may not cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms. The deadline for requesting the pass/fail option is posted on the Office of the Registrar website (https://registrar.wisc.edu).
   ii. **Pass/fail can only be chosen for elective courses:** Required courses cannot be taken on a pass/fail basis. CALS may reject pass/fail requests for non-elective work, but it is the student’s responsibility to be sure that the requested course is an elective.
   iii. **Pass/fail courses do not meet specific requirements:** Courses taken on a pass/fail basis will not count for non-elective requirements even if they would normally count toward such requirements.
   iv. **Number of pass/fail courses:** Undergraduates may carry one course on a pass/fail basis per term and a maximum of 16 credits during their undergraduate career. The summer sessions collectively count as a single term.
   v. **Exceptions:** CALS is authorized to make exceptions to the pass/fail policy.

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

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

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

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

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

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

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

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

**CREDIT THROUGH EXAMS AND SPECIAL PROGRAMS**

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

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

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

**ATTENDANCE AND MID-SEMESTER ISSUES**

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

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

**Registration Changes.** The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit. Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc. Students are strongly encouraged to consult with an academic advisor, or an academic dean in 116 Agricultural Hall, prior to initial enrollment and before making any changes to enrollment. Exceptions to or extensions of the university deadlines may only be granted for CALS students by an academic dean in 116 Agricultural Hall.

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

**GRADUATION ISSUES**

**Degree Audit Reporting System (DARS).** The Degree Audit Reporting System (DARS) (https://registrar.wisc.edu/dars_student.htm) provides a continuous record of progress toward fulfillment of degree requirements. It is the student’s responsibility to ensure that all requirements for graduation are fulfilled. Requests for exceptions must begin with the student’s academic advisor and be approved by the department (or equivalent) and by the academic dean. Students who believe their DARS report is in error should contact the Office of Academic Affairs in 116 Agricultural Hall directly.

**Residency Requirement.** CALS students must earn a minimum of 30 degree credits in residence at UW–Madison after they have earned 86 credits (i.e., senior standing) toward their undergraduate degree. Credits are considered “in residence” if they are earned for UW–Madison course work, including courses taken on a UW–Madison–administered study abroad program. Retroactive credits, AP credits, and credits granted by examination are not considered “in residence.” Appeals of this policy may be considered in advance by the Office of Academic Affairs (for requests up to 6 credits) or the Scholastic Policies and Actions Committee (for requests of more than 6 credits).

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

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

**ACADEMIC STANDING**

**SCHOLASTIC ACTIONS**

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

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

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

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

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

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

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

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

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

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

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

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

**APPEALS**

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

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

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

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

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

**Requirements**

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

**UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

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

**Requirements Detail**

**General Education**

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

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

**UNIVERSITY DEGREE REQUIREMENTS**

**Requirements Detail**

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

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

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

**COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS**

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

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

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td></td>
<td>Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.</td>
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<tr>
<td>Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.</td>
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<tr>
<td>First Year Seminar (p. 6)</td>
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<td>International Studies (p. 6)</td>
<td>3</td>
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<td>Physical Science Fundamentals</td>
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<td>CHEM 103</td>
<td>General Chemistry I</td>
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<td>or CHEM 108</td>
<td>Chemistry in Our World</td>
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<td>or CHEM 109</td>
<td>Advanced General Chemistry</td>
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<td>Biological Science</td>
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<tr>
<td>Additional Science (Biological, Physical, or Natural)</td>
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</table>
Science Breadth (Biological, Physical, Natural, or Social)      3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 6)

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

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

**CALS FIRST-YEAR SEMINAR REQUIREMENT**

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

- The course is designed specifically for first-year undergraduate students, to support their academic and personal transition to UW–Madison. For example, the course may acquaint students with academic, campus and community resources to assist in their transition through presentations, discussion, projects, or papers. Because students took this course, their transition to UW–Madison is more rapid and well supported.
- Course enrolls fewer than 25 students or a significant portion of the course meets in groups of fewer than 25 students. A larger lecture course will be considered if students interact regularly in sustained and substantive small groups with a faculty member or well-prepared graduate student or peer. This interaction must go beyond review of material and question and answer and be an on-going relationship.
- Students receive frequent feedback from the instructor(s) on their academic performance and receive a grade in the course.
- Students are put in circumstances that essentially demand they interact with faculty and peers about substantive matters. As a result of taking this course, students have gotten to know their instructor(s) and peers through meaningful course-related dialogue.
- Students will experience diversity through meaningful dialogue with people who are different from themselves and/or engage with diversity through course content which addresses inclusivity, diversity and identity.
- Students experience an integration of experiential and classroom learning. For example, students might be asked to attend a student organization meeting, meet with a faculty or staff member, or participate in research or service.
- Students have opportunities to integrate, synthesize and apply knowledge while exploring big questions and big ideas.

**APPROVED FIRST-YEAR SEMINAR COURSES**

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

1 Approved topics: BioHouse Seminar, Exploring Service, and Secrets of Science
2 Approved topics: UW Athletics Life Skills Academy and PEOPLE First Year Experience Seminar
3 For more information, see http://figs.wisc.edu/

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

Faculty and staff interested in submitting a course to count for the First-Year Seminar requirement may complete an online survey (https://uwmadison.co1.qualtrics.com/jfe/form/SV_8vKNkjVTZsDzGfz) with the following information:

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

**CALS INTERNATIONAL STUDIES REQUIREMENT**

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

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

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

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

APPROVED INTERNATIONAL STUDIES COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AN SCI/DY SCI 370</td>
<td>Livestock Production and Health in Agricultural Development</td>
<td>3</td>
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<tr>
<td>ANTHRO 100</td>
<td>General Anthropology</td>
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<tr>
<td>ANTHRO 104</td>
<td>Cultural Anthropology and Human Diversity</td>
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<td>ANTHRO/LCA/LINGUIS 430</td>
<td>Language and Culture</td>
<td>3-4</td>
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<td>ANTHRO 448</td>
<td>Anthropology of Law</td>
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<tr>
<td>A A E/ENVIR ST 244</td>
<td>The Environment and the Global Economy</td>
<td>3</td>
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<tr>
<td>A A E/AGRONOMY/INTER-AG/NUTR SCI 350</td>
<td>World Hunger and Malnutrition</td>
<td>3</td>
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<tr>
<td>A A E/INTL ST 373</td>
<td>Globalization, Poverty and Development</td>
<td>3</td>
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<tr>
<td>A A E/INTL ST 374</td>
<td>The Growth and Development of Nations in the Global Economy</td>
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<tr>
<td>A A E 375</td>
<td>Special Topics</td>
<td>1-4</td>
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<tr>
<td>A A E/ECON 473</td>
<td>Economic Growth and Development in Southeast Asia</td>
<td>3</td>
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<tr>
<td>A A E/ECON 474</td>
<td>Economic Problems of Developing Areas</td>
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<tr>
<td>A A E/ECON 477</td>
<td>Agricultural and Economic Development in Africa</td>
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<td>AGRONOMY/BOTANY/SOIL SCI 370</td>
<td>Grassland Ecology</td>
<td>3</td>
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<td>ART HIST/LCA 379</td>
<td>Cities of Asia</td>
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<td>ART HIST 411</td>
<td>Topics in Asian Art</td>
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<td>ART HIST/LCA 428</td>
<td>Visual Cultures of South Asia</td>
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<td>ART HIST 500</td>
<td>Proseminar: Special Topics in Art History</td>
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<tr>
<td>ART HIST/LCA 621</td>
<td>Mapping, Making, and Representing Colonial Spaces</td>
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<tr>
<td>C&amp;E SOC/ENVIR ST/SOC 540</td>
<td>Sociology of International Development, Environment, and Sustainability</td>
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<tr>
<td>DY SCI/AN SCI/FOOD SCI/SOIL SCI 472 &amp; DY SCI/AN SCI/FOOD SCI/SOIL SCI 473</td>
<td>Animal Agriculture and Global Sustainable Development and International Field Study in Animal Agriculture and Sustainable Development</td>
<td>3</td>
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<td>ECON 467</td>
<td>International Industrial Organizations</td>
<td>3-4</td>
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<td>ENOM/ENVIR ST 201</td>
<td>Insects and Human Culture-a Survey Course in Entomology</td>
<td>3</td>
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ENTOM/ZOOLOGY 371 | Medical Entomology                                                   | 3       |
F&W ECOL/ENVIR ST/ZOOLOGY 360 | Extinction of Species                                              | 3       |
GEOG 101     | Introduction to Human Geography                                      | 4       |
GEOG/ENVIR ST 120 | Introduction to the Earth System                                     | 3       |
GEOG/ENVIR ST 127 | Physical Systems of the Environment                                 | 5       |
GEOG/ENVIR ST 139 | Living in the Global Environment: An Introduction to People-Environment Geography | 3-4     |
GEOG/ENVIR ST 309 | People, Land and Food: Comparative Study of Agriculture Systems    | 3       |
GEOG/ENVIR ST 337 | Nature, Power and Society                                            | 3       |
GEOG/ENVIR ST 339 | Environmental Conservation                                          | 4       |
GEOG 340      | World Regions in Global Context                                     | 3       |
GEOG 349      | Europe                                                               | 3       |
GEOG 353      | Russia and the NIS-Topical Analysis                                  | 3       |
GEOG 355      | Africa, South of the Sahara                                          | 3       |
GEOG 358      | Human Geography of Southeast Asia                                    | 3       |
GEOG/C&E SOC/ENVIR ST 434 | People, Wildlife and Landscapes                                      | 3       |
GEOG/ENVIR ST 537 | Culture and Environment                                              | 4       |
GEOG 538      | The Humid Tropics: Ecology, Subsistence, and Development             | 4       |
HISTORY/E A STDS 103 | Introduction to East Asian History: China                        | 3-4     |
HISTORY/E A STDS 104 | Introduction to East Asian History: Japan                       | 3-4     |
HISTORY 105   | Introduction to the History of Africa                                | 3-4     |
HISTORY 108   | Introduction to East Asian History - Korea                           | 3-4     |
HISTORY 120   | Europe and the Modern World 1815 to the Present                      | 4       |
HISTORY 124   | British History: 1668 to the Present                                | 4       |
HISTORY 130   | An Introduction to World History                                    | 3-4     |
HISTORY 142   | History of South Asia to the Present                                | 3-4     |
HISTORY 242   | Modern Latin America, 1898 to the Present                           | 4       |
HISTORY/GEOG/LCA/POLE SCI/SOC 244 | Introduction to Southeast Asia: Vietnam to the Philippines     | 4       |
HISTORY/ASIAN AM/LCA 246 | Southeast Asian Refugees of the "Cold" War | 3-4     |
HISTORY/E A STDS/POLE SCI 255 | Introduction to East Asian Civilizations                        | 3-4     |
HISTORY/ASIAN AM/E A STDS 276 | Chinese Migrations since 1500                                      | 3-4     |
HISTORY/AFRICAN/AFROAMER/ANTHRO/GEOG/POLE SCI/SOC 277 | Africa: An Introductory Survey                                    | 4       |
HISTORY 279   | Afro-Atlantic History, 1808-Present                                  | 3-4     |
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<th>Course Code</th>
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<tr>
<td>HISTORY/E ASIAN/ RELIG ST 308</td>
<td>Introduction to Buddhism</td>
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<td>HISTORY 319</td>
<td>The Vietnam Wars</td>
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<td>HISTORY/ ENVIR ST 328</td>
<td>Environmental History of Europe</td>
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<td>HISTORY 335</td>
<td>Korean History, 1945 to present</td>
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<td>HISTORY/ E A STDS 341</td>
<td>History of Modern China, 1800-1949</td>
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<td>HISTORY/ E A STDS 342</td>
<td>History of the Peoples Republic of China, 1949 to the Present</td>
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<td>The Caribbean and its Diasporas</td>
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<td>Contemporary France, 1914 to the Present</td>
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<td>The First World War and the Shaping of Twentieth-Century Europe</td>
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<td>HISTORY 355</td>
<td>Work, Freedom and Democracy in the Americas, 1491-the Present</td>
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<td>The Second World War</td>
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<td>History of Europe Since 1945</td>
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<td>HISTORY/ E A STDS 363</td>
<td>China and World War II in Asia</td>
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<td>History of Africa Since 1870</td>
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<td>History of Germany, 1871 to the Present</td>
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<td>History of Soviet Russia</td>
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<td>The Soviet Union and the World, 1917-1991</td>
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<td>History of Poland and the Baltic Area</td>
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<td>HISTORY 441</td>
<td>Revolution and Conflict in Modern Latin America</td>
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<td>HISTORY/LCA 458</td>
<td>History of Southeast Asia Since 1800</td>
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<td>HISTORY 475</td>
<td>European Social History, 1914-Present</td>
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<td>HISTORY 514</td>
<td>European Cultural History Since 1870</td>
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<td>HORT 376 &amp; HORT 378</td>
<td>Tropical Horticultural Systems and Tropical Horticultural Systems International Field Study</td>
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<td>INTL BUS 200</td>
<td>International Business</td>
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<td>INTL BUS 365</td>
<td>Contemporary Topics</td>
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<td>INTL ST 101</td>
<td>Introduction to International Studies</td>
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<td>INTL ST/ED POL 335</td>
<td>Globalization and Education</td>
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<td>INTL ST/A A E 373</td>
<td>Globalization, Poverty and Development</td>
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<td>INTL ST 523</td>
<td>International Internship</td>
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<td>JEWISH/ RELIG ST 211</td>
<td>Introduction to Judaism</td>
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<td>JEWISH/ RELIG ST 278</td>
<td>Food in Rabbinic Judaism</td>
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<td>JEWISH/ LITTRANS 318</td>
<td>Modern Jewish Literature</td>
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<td>JEWISH/CURRIC/ HISTORY 515</td>
<td>Holocaust: History, Memory and Education</td>
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<td>MARKETNG/ INTL BUS 420</td>
<td>Global Marketing Strategy</td>
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<td>MED HIST/ ENVIR ST 213</td>
<td>Global Environmental Health: An Interdisciplinary Introduction</td>
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<td>NUTR SCI/ AGRONOMY/ ENTOM 203</td>
<td>Introduction to Global Health</td>
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<td>PL PATH/BOTANY 123</td>
<td>Plants, Parasites, and People</td>
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<td>PL PATH 311</td>
<td>Global Food Security</td>
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<td>POLI SCI 120</td>
<td>Politics Around the World</td>
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<td>POLI SCI 140</td>
<td>Introduction to International Relations</td>
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<td>POLI SCI/ GEOG/ HISTORY/LCA/ SOC 252</td>
<td>The Civilizations of India-Modern Period</td>
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<td>POLI SCI/ GEOG/ HISTORY/ SLAVIC 253</td>
<td>Russia: An Interdisciplinary Survey</td>
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<td>POLI SCI/ GEOG/ HISTORY/ SLAVIC 254</td>
<td>Eastern Europe: An Interdisciplinary Survey</td>
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<td>POLI SCI/ AFROAMER/ ANTHRO/C&amp;E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260</td>
<td>Latin America: An Introduction</td>
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<td>POLI SCI/ AFROAMER/ ANTHRO/ GEOG/ HISTORY/SOC 277</td>
<td>Africa: An Introductory Survey</td>
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<td>POLI SCI 321</td>
<td>Latin-American Politics</td>
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<td>POLI SCI 322</td>
<td>Politics of Southeast Asia</td>
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<td>POLI SCI 324</td>
<td>Political Power in Contemporary China</td>
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<td>POLI SCI/ INTL ST 327</td>
<td>Indian Politics in Comparative Perspective</td>
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<td>POLI SCI 329</td>
<td>African Politics</td>
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<td>POLI SCI 334</td>
<td>Russian Politics</td>
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<td>POLI SCI 340</td>
<td>The European Union: Politics and Political Economy</td>
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<td>POLI SCI 345</td>
<td>Conflict Resolution</td>
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<td>POLI SCI 346</td>
<td>China in World Politics</td>
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<td>POLI SCI 348</td>
<td>Analysis of International Relations</td>
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<td>POLI SCI 351</td>
<td>Politics of the World Economy</td>
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<td>POLI SCI 354</td>
<td>International Institutions and World Order</td>
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<td>POLI SCI 356</td>
<td>Principles of International Law</td>
<td>3-4</td>
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<tr>
<td>POLI SCI 359</td>
<td>American Foreign Policy</td>
<td>3-4</td>
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</tbody>
</table>
A Capstone Experience should:

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

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

**DEGREES OFFERED**

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

**B.S. DEGREE**

**B.S.–AGRICULTURAL BUSINESS MANAGEMENT**

(HTTP://GUIDE.WISC.EDU/UNDERGRADUATE/AGRICULTURAL-LIFE-SCIENCES/AGRICULTURAL-APPLIED-ECONOMICS/BUSINESS-MANAGEMENT-ABM)

**B.S.–BIOLOGICAL SYSTEMS ENGINEERING**

(HTTP://GUIDE.WISC.EDU/UNDERGRADUATE/AGRICULTURAL-LIFE-SCIENCES/BIOLOGICAL-SYSTEMS-ENGINEERING/BIOLOGICAL-SYSTEMS-ENGINEERING-BSE)

**B.S.–DIETETICS**

(HTTP://GUIDE.WISC.EDU/UNDERGRADUATE/AGRICULTURAL-LIFE-SCIENCES/NUTRITIONAL-SCIENCES/NUTRITIONAL-SCIENCES-BS-DIETETICS)

**B.S.–LANDSCAPE ARCHITECTURE**

(HTTP://GUIDE.WISC.EDU/UNDERGRADUATE/AGRICULTURAL-LIFE-SCIENCES/LANDSCAPE-ARCHITECTURE/LANDSCAPE-ARCHITECTURE-BSLA)

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

**MULTIPLE DEGREES OR MAJORS**

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

**SECOND BACHELOR OF SCIENCE DEGREE REQUIREMENTS**

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

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

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

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CALS CAPSTONE LEARNING EXPERIENCE REQUIREMENT

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

A Capstone Experience should:

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

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

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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>POLI SCI 377</td>
<td>Nuclear Weapons and World Politics</td>
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<tr>
<td>POLI SCI 401</td>
<td>Selected Topics in Political Science</td>
<td>3-4</td>
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<tr>
<td>POLI SCI 421</td>
<td>The Challenge of Democratization</td>
<td>3-4</td>
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<tr>
<td>POLI SCI/GEN&amp;W 429</td>
<td>Gender and Politics in Comparative Perspective</td>
<td>3-4</td>
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<td>POLI SCI/INTL ST 431</td>
<td>Contentious Politics</td>
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<td>POLI SCI/INTL ST 434</td>
<td>The Politics of Human Rights</td>
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<td>POLI SCI 438</td>
<td>Comparative Political Culture</td>
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<tr>
<td>POLI SCI/INTL ST 439</td>
<td>The Comparative Study of Genocide</td>
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<td>POLI SCI 455</td>
<td>African International Relations</td>
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<td>POLI SCI 529</td>
<td>Arab-Israeli Conflict</td>
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<td>POLI SCI 601</td>
<td>Proseminar: Topics in Political Science</td>
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<td>POLI SCI/RELIG ST 618</td>
<td>Political Islam</td>
<td>3-4</td>
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<td>POLI SCI 659</td>
<td>Politics and Society: Contemporary Eastern Europe</td>
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<td>POLI SCI/JEWISH 665</td>
<td>Israeli Politics and Society</td>
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<tr>
<td>POP HLTH 370</td>
<td>Introduction to Public Health: Local to Global Perspectives</td>
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<td>RELIG ST 101</td>
<td>Religion in Global Perspective</td>
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1 Approved topics: Political Economy of Development, Comparative Foreign Policy, and German Politics
Students must complete a minimum of 30 credits in residence, of which 15 or more must be in the major field as specified by the major department. These credits are in addition to credits earned for the first degree.

Candidates must complete all university, college, major, and curricular degree program requirements. Credits earned for the first degree will apply toward appropriate requirements for the second. However, students must take at least 30 additional credits, as noted above. Students with their first B.S. degree from the college must select a new major or degree program.

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

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

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

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

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

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

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

a. The student must have approval in advance from their CALS major advisor, the advisor of their desired second major, and the Associate Dean for Academic Affairs in the Office of Academic Affairs in CALS. This approval must be granted before the student has earned 86 credits.

b. The student must satisfy all requirements of both majors. The student must meet all CALS general course requirements and the degree program requirements, as well as all major field requirements.

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

EARNING A LETTERS AND SCIENCE MAJOR WHILE COMPLETING A DEGREE PROGRAM IN THE COLLEGE OF AGRICULTURAL AND LIFE SCIENCES
The College of Letters & Science (L&S) permits undergraduates currently enrolled in the College of Agricultural and Life Sciences to complete an additional undergraduate major offered by L&S and have this fact noted on the transcript.

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

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

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

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

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

1. Crops and Soils Management
2. Dairy Farm Management
3. Farm and Equipment Operations
4. Meat Animal Farm Management
5. Diversified Agricultural Operations
More than 100 CALS scholarships are available to FISC students, with about $150,000 awarded each academic year. The range of scholarship funds given per student is $500–$2,000. See the program's website (https://fisc.cals.wisc.edu/prospective-students/funding-your-education) for more information about funding a FISC education.

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

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

**SPECIAL SHORT COURSES**

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

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

**RESOURCES**

**STUDENT SERVICES**

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

**STUDENT ADVISING**

Every student enrolled in the college has an assigned advisor. Students are expected to consult their advisors before each registration period, and are encouraged to consult their advisors throughout the year. Faculty/department staff advisors help students plan their coursework to meet their educational objectives. When students enroll in the college as beginning freshmen or as transfer students, they are assigned an advisor in their major field of study. Advisors will talk with students about educational and career objectives and counsel them about meeting degree requirements and planning their educational programs.

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

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

**CAREER SERVICES**

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

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

**INTERNATIONAL ACADEMIC OPPORTUNITIES**

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

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

**FINANCIAL RESOURCES**

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

**AGRICULTURAL AND LIFE SCIENCES SCHOLARSHIPS**

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

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

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

AGRICULTURAL AND LIFE SCIENCES LOANS
Several short-term loan funds have been established for students in the college. Students may borrow money for up to six months at no interest, or very low interest, provided the money is repaid when due. Students must be able to provide a specific plan for loan repayment. No prior authorizations are needed, and the loan amount is available from the Bursar’s Office on the same day the application is approved. Applications for these short-term loans are available in the Office of Academic Affairs.

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

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

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

PREPARATION FOR PROFESSIONAL CAREERS IN VETERINARY MEDICINE AND MEDICINE
For information about preparation for professional careers in veterinary medicine and medicine, visit the Center for Pre-Health Advising (http://www.prehealth.wisc.edu).

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

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

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

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

HONORS

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

CRITERIA FOR "GRADUATED WITH DISTINCTION" AND "GRADUATED WITH HIGHEST DISTINCTION"
Students who have a cumulative GPA that places them in the top 20 percent of the graduating class in the college will graduate with "Distinction"; those in the upper 5 percent, with "Highest Distinction." These students must have at least 60 credits on the Madison campus. The notations on the student’s transcript will read “Graduated with Distinction” or “Graduated with Highest Distinction." The registrar determines which students meet these criteria.

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

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

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

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

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