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 section of the Guide.

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.

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. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<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></td>
<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></td>
<td>First Year Seminar</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
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</tbody>
</table>

MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Mathematics and Statistics</td>
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<tr>
<td></td>
<td>Select one of the following (or may be satisfied by placement exam):</td>
<td>3-5</td>
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<tr>
<td></td>
<td>MATH 112, Algebra</td>
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<tr>
<td></td>
<td>MATH 114, Algebra and Trigonometry</td>
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<tr>
<td></td>
<td>MATH 171, Calculus with Algebra and Trigonometry I</td>
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<td>Select one of the following:</td>
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<td></td>
<td>STAT 301, Introduction to Statistical Methods</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
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<tr>
<td></td>
<td>Chemistry</td>
<td>4-5</td>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>CHEM 103, General Chemistry I</td>
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<tr>
<td></td>
<td>&amp; CHEM 104, General Chemistry I</td>
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</tr>
<tr>
<td></td>
<td>CHEM 109, Advanced General Chemistry</td>
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<tr>
<td></td>
<td>Biology</td>
<td>9-10</td>
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<td>Select one of the following options:</td>
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<td></td>
<td>ZOOLOGY/BIOLOGY 101, Animal Biology</td>
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<tr>
<td></td>
<td>ZOOLOGY/BIOLOGY 102, Animal Biology Laboratory</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
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<tr>
<td></td>
<td>AGRONOMY 100, Principles and Practices in Crop Production</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
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<tr>
<td></td>
<td>Option 2:</td>
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<tr>
<td></td>
<td>ZOOLOGY/BIOLOGY 101, Animal Biology</td>
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<tr>
<td></td>
<td>ZOOLOGY/BIOLOGY 102, Animal Biology Laboratory</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
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<tr>
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<td>BOTANY/BIOLOGY 130, General Botany</td>
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<td>Option 3:</td>
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<tr>
<td></td>
<td>BIOLOGY/BOTANY/ZOOLOGY 151, Introductory Biology</td>
<td><a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">Link</a></td>
</tr>
</tbody>
</table>
BIOLOGY/ BOTANY/ ZOOLOGY 152

Introductory Biology

Select one of the following:

- GENETICS 466 Principles of Genetics
- CHEM 341 Elementary Organic Chemistry
- CHEM 343 Introductory Organic Chemistry
- MICROBIO 101 General Microbiology
- MICROBIO 303 Biology of Microorganisms
- M M & I 341 Immunology

BIOLOGY

- BIOCHEM 301 Survey of Biochemistry
- BIOCHEM 501 Introduction to Biochemistry
- BIOCHEM 507 General Biochemistry I
- & BIOCHEM 508 and General Biochemistry II
- BMOLCHEM 314 Introduction to Human Biochemistry (offered during summer session only)

ECONOMICS

Select one of the following:

- A A E 215 Introduction to Agricultural and Applied Economics
- ECON 101 Principles of Microeconomics

Dairy Science Core

- AN SCI/DY SCI 101 Introduction to Animal Sciences
- DY SCI 233 Dairy Herd Management I
- DY SCI 234 Dairy Herd Management II
- AN SCI/DY SCI/NUTR Comparative Animal Nutrition
  SCI 311
- AN SCI/DY SCI 361 Introduction to Animal and Veterinary Genetics
- AN SCI/DY SCI 362 Veterinary Genetics
  or AN SCI/DY SCI 363 Principles of Animal Breeding
- AN SCI/DY SCI 373 Animal Physiology
- DY SCI 378 Lactation Physiology
- AN SCI/DY SCI 414 Ruminant Nutrition & Metabolism
- AN SCI/DY SCI 434 Reproductive Physiology

Capstone

- DY SCI 399 Coordinative Internship/Cooperative Education 1-8
- DY SCI 535 Dairy Farm Management Practicum 3

Dairy Science Electives

Select at least 3 credits from:

- DY SCI 205 Dairy Cattle Improvement Programs
- DY SCI 272 Pre-Capstone Seminar
- DY SCI 289 Honors Independent Study 1
- DY SCI 299 Independent Study 1
- DY SCI/ AN SCI 370 Livestock Production and Health in Agricultural Development
- DY SCI 375 Special Topics 1
- DY SCI/ AGRONOMY 471 Food Production Systems and Sustainability

DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472

Animal Agriculture and Global Sustainable Development

DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 473

International Field Study in Animal Agriculture and Sustainable Development

DY SCI 534

Reproductive Management of Dairy Cattle

DY SCI 681 Senior Honors Thesis 1

DY SCI 682 Senior Honors Thesis 1

DY SCI 699 Special Problems 1

Total Credits 65-79

1 Consult with your advisor for details.

UNIVERSITY DEGREE REQUIREMENTS

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.