CONSERVATION BIOLOGY, BA

Conservation Biology is a science-based major designed to provide students broad training in biological, ecological, and related disciplines most relevant to conservation. The program emphasizes basic knowledge of natural history, whole organism biology, ecological interactions, and field biology. The major is characterized by flexibility with a broad range of opportunities allowing students to tailor the program to their interests. This major appeals to independent students capable of assembling a curriculum that takes maximum advantage of both strong background, diversity, and specialization, as well as the breadth available through an L&S major. The program has a unique appeal to students passionate about conservation biology, from the social scientist to the theoretical ecologist, and empowers students to act as informed citizens of the natural world.

Former UW professors Aldo Leopold and Norman Fassett first initiated this major in the 1940s to prepare individuals for careers as game wardens, ranger naturalists, and museum workers. These opportunities continue and have expanded to include work in environmental education; land restoration and park management; endangered species research and recovery efforts; private conservation organizations and government agencies; and many more. The major is recommended for those seeking a liberal education in the intrinsic values of natural resources and those preparing for graduate study in the rapidly developing field of conservation biology.

INTERNISHIP/FIELD EXPERIENCE

Students in the Conservation Biology major are encouraged to take field courses when possible (including suitable study abroad and field-based programs) and to gain additional experience via research, jobs, and internships. Students who wish to obtain academic credit for internships can consider Inter-LS 260: Internship in Liberal Arts and Sciences (https://successworks.wisc.edu/ls-finding-an-internship/inter-ls-260-internship-course/) or arrange in advance to set up a Directed Study for research or internships with faculty to propose as elective credit in the major. Students pursuing funding for their experiences can refer to the SuccessWorks Summer Internship Scholarship (https://successworks.wisc.edu/documents/summer-internship-scholarship-application-faq/), study abroad resources for funding your experience (https://studyabroad.wisc.edu/funding/), and advising with the Office of Student Financial Aid (https://financialaid.wisc.edu/services/).

HOW TO GET IN

HOW TO GET IN

To declare the Conservation Biology major, students must make an appointment (https://conservationbiology.ls.wisc.edu/requirements/#how-to-declare) with the program’s Academic Advising Manager.

If students are not currently in the College of Letters & Science (L&S), they must transfer into L&S before declaring. Students are welcome to meet with the Academic Advising Manager to discuss the major before transferring.

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/#requirementsforundergraduatetext) 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 LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (BA)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics

• Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Language

• Complete the fourth unit of a language other than English; OR
• Complete the third unit of a language and the second unit of an additional language other than English.
LS Breadth
- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework
Complete at least 108 credits.

Depth of Intermediate/Advanced work
Complete at least 60 credits at the intermediate or advanced level.

Major
Declare and complete at least one major.

Total Credits
Complete at least 120 credits.

UW-Madison Experience
- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work
- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

NON–L&S STUDENTS PURSUING AN L&S MAJOR
Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

REQUIREMENTS FOR THE MAJOR
Conservation biology majors must take at least 50 credits in the major. When selecting courses to meet major requirements, students are encouraged to meet with their Academic Advising Manager to discuss courses that align with their areas of academic interest.

INTRODUCTORY COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Introductory Biology</td>
<td>10</td>
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</tbody>
</table>

Complete one of the following options:

Option 1:
- BIOLOGY/ZOOLOGY 101  Animal Biology
- BIOLOGY/ZOOLOGY 102  Animal Biology Laboratory
- BIOLOGY/BOTANY 130  General Botany

Option 2:
- BIOLOGY/BOTANY/ZOOLOGY 151 Introductory Biology
- BIOLOGY/BOTANY/ZOOLOGY 152 Introductory Biology

Option 3:
Complete at least 10 credits from the following:

- BIOCORE 381 Evolution, Ecology, and Genetics
- BIOCORE 382 Evolution, Ecology, and Genetics Laboratory
- BIOCORE 383 Cellular Biology
- BIOCORE 384 Cellular Biology Laboratory
- BIOCORE 485 Principles of Physiology
- BIOCORE 486 Principles of Physiology Laboratory

Chemistry

<table>
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<tr>
<th>Credits</th>
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<td>4-5</td>
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</table>

Complete one of the following:

- CHEM 103 General Chemistry I
- CHEM 108 Chemistry in Our World
- CHEM 109 Advanced General Chemistry (for those who might take more chemistry)

Physical Environment

<table>
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<tr>
<th>Credits</th>
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<td>3-5</td>
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</table>

Complete one of the following:

- ATM OCN/GEOSCI 105 Survey of Oceanography
- ENVIR ST/GEOSCI 106 Environmental Geology
- ENVIR ST/GEOG 120 Introduction to the Earth System
- ENVIR ST/GEOG 127 Physical Systems of the Environment
- GEOSCI 100 Introductory Geology: How the Earth Works

Ecology and Evolution

<table>
<thead>
<tr>
<th>Credits</th>
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<td>6-7</td>
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</tbody>
</table>

Complete two of the following, each from a different category (students are encouraged to take courses in all three areas):

Ecology:
- BOTANY/F&W ECOL/ZOOLOGY 460 General Ecology

Evolution:
- GEOSCI 110 Evolution and Extinction
- or ANTHRO/BOTANY/ZOOLOGY 410 Evolutionary Biology

Extinction:
- ENVIR ST/F&W ECOL/ZOOLOGY 360 Extinction of Species

Statistics

<table>
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<tr>
<th>Credits</th>
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<tr>
<td>3</td>
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</tbody>
</table>

Complete one of the following:

- STAT 240 Data Science Modeling I
- STAT 301 Introduction to Statistical Methods
- STAT 371 Introductory Applied Statistics for the Life Sciences
### SPECIES & FIELD BIOLOGY

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGRONOMY/ BOTANY/ SOIL SCI 370</td>
<td>Grassland Ecology</td>
<td>3</td>
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<tr>
<td>ENTOM/ ZOOLOGY 371</td>
<td>Medical Entomology</td>
<td>3</td>
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<tr>
<td>AN SCI/ F&amp;W ECOL/ ZOOLOGY 520</td>
<td>Ornithology</td>
<td>3</td>
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<tr>
<td>AN SCI/ F&amp;W ECOL/ ZOOLOGY 521</td>
<td>Birds of Southern Wisconsin</td>
<td>3</td>
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<tr>
<td>ANTHRO 391</td>
<td>Bones for the Archaeologist</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 420</td>
<td>Introduction to Primatological Research</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 458</td>
<td>Primate Behavioral Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 668</td>
<td>Primate Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BOTANY 330</td>
<td>Algae</td>
<td>3</td>
</tr>
<tr>
<td>BOTANY/ PL PATH 332</td>
<td>Fungi</td>
<td>3</td>
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<tr>
<td>BOTANY/ PL PATH 333</td>
<td>Biology of the Fungi</td>
<td>3</td>
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<tr>
<td>BOTANY 400</td>
<td>Plant Systematics</td>
<td>3</td>
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<tr>
<td>BOTANY 401</td>
<td>Vascular Flora of Wisconsin</td>
<td>3</td>
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<tr>
<td>BOTANY/ F&amp;W ECOL 402</td>
<td>Dendrology: Woody Plant Identification and Ecology</td>
<td>3</td>
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<tr>
<td>BOTANY 422</td>
<td>Plant Geography</td>
<td>3</td>
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<tr>
<td>BOTANY/ F&amp;W ECOL 455</td>
<td>The Vegetation of Wisconsin</td>
<td>3</td>
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<tr>
<td>BOTANY/ ENTOM/ ZOOLOGY 473</td>
<td>Plant-Insect Interactions</td>
<td>3</td>
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<tr>
<td>ENTOM/ ZOOLOGY 302</td>
<td>Introduction to Entomology</td>
<td>3</td>
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<tr>
<td>ENTOM 331</td>
<td>Taxonomy of Mature Insects</td>
<td>3</td>
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<tr>
<td>ENTOM 432</td>
<td>Taxonomy and Bionomics of Immature Insects</td>
<td>3</td>
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<tr>
<td>ENTOM 468</td>
<td>Studies in Field Entomology</td>
<td>3</td>
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<tr>
<td>ENVIR ST/ ZOOLOGY 315</td>
<td>Limnology-Conservation of Aquatic Resources</td>
<td>3</td>
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<tr>
<td>ENVIR ST 375</td>
<td>Field Ecology Workshop</td>
<td>3</td>
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<tr>
<td>ENVIR ST/ ZOOLOGY 510</td>
<td>Ecology of Fishes</td>
<td>3</td>
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<td>ENVIR ST/ ZOOLOGY 511</td>
<td>Ecology of Fishes Lab</td>
<td>3</td>
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<tr>
<td>F&amp;W ECOL 306</td>
<td>Terrestrial Vertebrates: Life History and Ecology</td>
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<tr>
<td>F&amp;W ECOL 401</td>
<td>Physiological Animal Ecology</td>
<td>3</td>
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<tr>
<td>F&amp;W ECOL/ SURG SCI 548</td>
<td>Diseases of Wildlife</td>
<td>3</td>
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<tr>
<td>F&amp;W ECOL 655</td>
<td>Animal Population Dynamics</td>
<td>3</td>
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<tr>
<td>GEOSCI/ ZOOLOGY 541</td>
<td>Paleobiology</td>
<td>3</td>
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<tr>
<td>GEOSCI/ ZOOLOGY 542</td>
<td>Invertebrate Paleontology</td>
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<tr>
<td>LAND ARC/ ENVIR ST 361</td>
<td>Wetlands Ecology</td>
<td>3</td>
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<tr>
<td>LAND ARC/ ENVIR ST 581</td>
<td>Prescribed Fire: Ecology and Implementation</td>
<td>3</td>
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<tr>
<td>MICROBIO 303</td>
<td>Biology of Microorganisms</td>
<td>3</td>
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<tr>
<td>MICROBIO 304</td>
<td>Biology of Microorganisms Laboratory</td>
<td>3</td>
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<tr>
<td>M M &amp; I/ENTOM/ PATH-BIO/ ZOOLOGY 350</td>
<td>Parasitology</td>
<td>3</td>
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<tr>
<td>PSYCH 449</td>
<td>Animal Behavior</td>
<td>3</td>
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<tr>
<td>or ZOOLOGY 425</td>
<td>Behavioral Ecology</td>
<td>3</td>
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<tr>
<td>PSYCH 450</td>
<td>Primate Psychology: Insights into Human Behavior</td>
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<tr>
<td>ZOOLOGY 303</td>
<td>Aquatic Invertebrate Biology</td>
<td>3</td>
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<tr>
<td>ZOOLOGY 304</td>
<td>Marine Biology</td>
<td>3</td>
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<td>ZOOLOGY 320</td>
<td>Field Marine Biology</td>
<td>3</td>
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<tr>
<td>ZOOLOGY/ ENVIR ST 315</td>
<td>Limnology-Conservation of Aquatic Resources</td>
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<tr>
<td>ZOOLOGY 316</td>
<td>Laboratory for Limnology-Conservation of Aquatic Resources</td>
<td>3</td>
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<tr>
<td>ZOOLOGY 430</td>
<td>Comparative Anatomy of Vertebrates</td>
<td>3</td>
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</table>

### CONSERVATION BIOLOGY CLASS REQUIREMENT

BOTANY/ENVIR ST/F&W ECOL/ZOOLOGY 651 Conservation Biology

### ELECTIVES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A A E 101</td>
<td>Introduction to Agricultural and Applied Economics</td>
<td>3</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>AMER IND/ GEOG 410</td>
<td>Critical Indigenous Ecological知-</td>
<td>3</td>
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<tr>
<td>AMER IND/ ANTHRO 474</td>
<td>Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>C&amp;E SOC/ SOC 140</td>
<td>Introduction to Community and Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>C&amp;E SOC/ F&amp;W ECOL/ SOC 248</td>
<td>Environment, Natural Resources, and Society</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON/ENVIR ST/ POLI SCI/ URB R PL 449</td>
<td>Government and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>ENVIR ST/ GEOG 139</td>
<td>Global Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ENVIR ST/AMER IND 306</td>
<td>Indigenous Peoples and the Environment</td>
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<tr>
<td>ENVIR ST/GEOG 339</td>
<td>Environmental Conservation</td>
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<tr>
<td>ENVIR ST/PHILOS 441</td>
<td>Environmental Ethics</td>
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<tr>
<td>ENVIR ST/GEOG/HISTORY 460</td>
<td>American Environmental History</td>
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<tr>
<td>ENVIR ST/GEOG/HISTORY 469</td>
<td>The Making of the American Landscape</td>
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<tr>
<td>GEOG 344</td>
<td>Changing Landscapes of the American West</td>
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<tr>
<td>GEOG 359</td>
<td>Australia: Environment and Society</td>
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<tr>
<td>GEOG 538</td>
<td>The Humid Tropics: Ecology, Subsistence, and Development</td>
<td></td>
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<tr>
<td>LAND ARC 363</td>
<td>Earth Partnership: Restoration Education for Equity and Resilience</td>
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**Electives to attain 50 credits in the major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AGRONOMY/HORT 376</td>
<td>Tropical Horticultural Systems</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Introduction to Museum Studies in Anthropology</td>
</tr>
<tr>
<td>ATM OCN 100</td>
<td>Weather and Climate</td>
</tr>
<tr>
<td>ATM OCN 101</td>
<td>Weather and Climate</td>
</tr>
<tr>
<td>ATM OCN/ENVIR ST 171</td>
<td>Global Change: Atmospheric Issues and Problems</td>
</tr>
<tr>
<td>BOTANY/PL PATH 123</td>
<td>Plants, Parasites, and People</td>
</tr>
<tr>
<td>BOTANY/ENVIR ST/ZOOLOGY 260</td>
<td>Introductory Ecology</td>
</tr>
<tr>
<td>BOTANY 300</td>
<td>Plant Anatomy</td>
</tr>
<tr>
<td>BOTANY 305</td>
<td>Plant Morphology and Evolution</td>
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<tr>
<td>BOTANY/ZOOLOGY 450</td>
<td>Midwestern Ecological Issues: A Case Study Approach</td>
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<tr>
<td>BOTANY/ENTOM/PL PATH 505</td>
<td>Plant-Microbe Interactions: Molecular and Ecological Aspects</td>
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<tr>
<td>C&amp;E SOC/ENVIR ST/GEOG 434</td>
<td>People, Wildlife and Landscapes</td>
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<tr>
<td>ENTOM/ENVIR ST 201</td>
<td>Insects and Human Culture—a Survey Course in Entomology</td>
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<tr>
<td>ENTOM/ZOOLOGY 540</td>
<td>Theoretical Ecology</td>
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<tr>
<td>ENTOM 699</td>
<td>Special Problems</td>
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<tr>
<td>ENVIR ST/ILS 126</td>
<td>Principles of Environmental Science</td>
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<tr>
<td>ENVIR ST/GEOG/SOIL SCI 230</td>
<td>Soil: Ecosystem and Resource</td>
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<tr>
<td>ENVIR ST 307</td>
<td>Literature of the Environment: Speaking for Nature</td>
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<tr>
<td>ENVIR ST/SOIL SCI 324</td>
<td>Soils and Environmental Quality</td>
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<tr>
<td>ENVIR ST/CIV ENGR/GEOG 377</td>
<td>An Introduction to Geographic Information Systems</td>
</tr>
<tr>
<td>ENVIR ST/POP HLTH 471</td>
<td>Introduction to Environmental Health</td>
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<tr>
<td>ENVIR ST/F&amp;W ECOL 515</td>
<td>Natural Resources Policy</td>
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<tr>
<td>ENVIR ST/GEOG 537</td>
<td>Culture and Environment</td>
</tr>
<tr>
<td>ENVIR ST/SOIL SCI 575</td>
<td>Assessment of Environmental Impact</td>
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<tr>
<td>F&amp;W ECOL/ZOOLOGY 335</td>
<td>Human/Animal Relationships: Biological and Philosophical Issues</td>
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<tr>
<td>F&amp;W ECOL 375</td>
<td>Special Topics (Freshwater Conservation)</td>
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<tr>
<td>F&amp;W ECOL 561</td>
<td>Wildlife Management Techniques</td>
</tr>
<tr>
<td>F&amp;W ECOL 699</td>
<td>Special Problems</td>
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<tr>
<td>GENETICS 466</td>
<td>Principles of Genetics</td>
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<td>GENETICS 467</td>
<td>General Genetics 1</td>
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<tr>
<td>GEOG/GEOSCI 420</td>
<td>Glacial and Pleistocene Geology</td>
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<tr>
<td>GEOSCI/GLE 627</td>
<td>Hydrogeology</td>
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<tr>
<td>LAND ARC 211</td>
<td>Shaping the Built Environment</td>
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<tr>
<td>MICROBIO 101</td>
<td>General Microbiology</td>
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<td>MICROBIO 102</td>
<td>General Microbiology Laboratory</td>
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<td>PL PATH 300</td>
<td>Introduction to Plant Pathology</td>
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<tr>
<td>PL PATH 315</td>
<td>Plant Microbiomes</td>
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<tr>
<td>SOIL SCI 301</td>
<td>General Soil Science</td>
</tr>
<tr>
<td>ZOOLOGY 405</td>
<td>Introduction to Museum Studies in the Natural Sciences</td>
</tr>
</tbody>
</table>

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence
- 15 credits in the major, taken on the UW–Madison campus

**HONORS IN THE MAJOR**

Students may declare Honors in the Conservation Biology Major in consultation with the Conservation Biology undergraduate advisor.

**HONORS IN THE CONSERVATION BIOLOGY MAJOR REQUIREMENTS**

To earn Honors in the Major in Conservation Biology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete at least 16 credits, taken for Honors, with a grade of B or better, in the conservation biology major, to include a two-semester Senior Honors Thesis in an appropriate department.
FOOTNOTES

1 Students may NOT apply both ZOOLOGY 425 Behavioral Ecology and PSYCH 449 Animal Behavior in the conservation biology program.
2 Courses in the major numbered 300 through 699 are considered upper level.
3 Examples include Botany, Zoology, Environmental Studies; see the Conservation Biology advisor to verify that your thesis department will be acceptable.

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.

LEARNING OUTCOMES

1. Explain the basic concepts of ecology and evolution and how they underpin and apply to the science of conservation biology.
2. Understand and explain the scientific process as related to conservation biology, including the relevance of theories and how hypotheses are tested.
3. Recognize species within some particular group of organisms and explain key aspects of their ecology, phylogeny, and conservation needs.
4. Apply general ecological principles to assess and address conservation threats to particular species, communities, and ecosystems.
5. Investigate and communicate the connections between the biological and social sciences and humanities as they affect conservation programs and activities.
6. Identify, interpret, and communicate conservation ideas, needs and programs to others.

FOUR-YEAR PLAN

FOUR-YEAR PLAN
This Four-Year Plan is only one way a student may complete an L&S degree with this major. Many factors can affect student degree planning, including placement scores, credit for transferred courses, credits earned by examination, and individual scholarly interests. In addition, many students have commitments (e.g., athletics, honors, research, student organizations, study abroad, work and volunteer experiences) that necessitate they adjust their plans accordingly. Informed students engage in their own unique Wisconsin Experience by consulting their academic advisors, Guide, DARS, and Course Search & Enroll for assistance making and adjusting their plan.

The Conservation Biology road map is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and the Course Guide/Schedule of Classes. Your specific program of study could, and probably will, look different. You should customize the road map to fit your unique path at UW–Madison. Consult with your advisor about the best path for you.

Freshman

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<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Communication A¹</td>
<td>3 I/A COMP SCI or MATH (if required for the BS)</td>
<td>3-5</td>
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<tr>
<td>Quantitative Reasoning A</td>
<td>3-5 Ethnic Studies²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (if needed)</td>
<td>3-4 Social Science Breadth</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>4 Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
<td><strong>14</strong></td>
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</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOLOGY/ BIOLOGY 101 &amp; ZOOLOGY/ BIOLOGY 102³</td>
<td>5 BOTANY/BIOLOGY 130</td>
<td>5</td>
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</tr>
<tr>
<td>INTER-LS 210⁴</td>
<td>1 Communication B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>STAT 301, 371, or 240</td>
<td>3-4 Physical Environment</td>
<td>3-5</td>
<td></td>
</tr>
<tr>
<td>Humanities Breadth</td>
<td>3 Social Science Elective in the Major</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology and Evolution</td>
<td>3-4 Species &amp; Field Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Species &amp; Field Biology</td>
<td>3 Humanities Breadth</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Humanities Breadth</td>
<td>3-4 Social Science Breadth</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3-4 Elective</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology and Evolution</td>
<td>3-4 Species &amp; Field Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Species &amp; Field Biology</td>
<td>3 Elective credit in the major (if needed for 50 credits)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>
Although not required for the major, such students are also encouraged to consider the following classes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>3-4</td>
</tr>
<tr>
<td>GENETICS 466</td>
<td>Principles of Genetics</td>
<td>3-4</td>
</tr>
</tbody>
</table>

L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (https://successworks.wisc.edu/) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (https://successworks.wisc.edu/)
- Make a career advising appointment (https://successworks.wisc.edu/make-an-appointment/)
- Enroll in a Career Course (https://successworks.wisc.edu/career-courses/) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (https://successworks.wisc.edu/finding-a-job-or-internship/)
- INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (https://successworks.wisc.edu/handshake/) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students’ lives (https://successworks.wisc.edu/about/mission/)

RESOURCES AND SCHOLARSHIPS

ROLAND H & MAUDE M. BECKER SCHOLARSHIP

Established by Barbara B. Glass in 1988 in memory of her parents, the Roland & Maude Becker Scholarship (https://conservationbiology.ls.wisc.edu/scholarships/) provides financial assistance to students with a major in conservation biology. The scholarship is a one-time award to help support a conservation experience.
related to the major. A conservation experience may include an 
undergraduate research experience, internship experience, study abroad 
program, etc. Awards will be in the amount of $500 and up to two awards 
will be awarded per academic year.

SUCCESSWORKS SUMMER INTERNSHIP 
SCHOLARSHIP 
This scholarship (https://careers.ls.wisc.edu/ls-finding-an-internship/ 
money-for-your-internship/) provides amounts ranging from $2,000 
to $5,000 each to help students take advantage of and enable them to 
participate in a first time internship opportunity that is unpaid or provides a 
limited stipend.

HILLDALE UNDERGRADUATE/FACULTY 
RESEARCH FELLOWSHIP 
The Hilldale Undergraduate/Faculty Research Fellowships (https:// 
awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty- 
research-fellowship/) support undergraduate research done in 
collaboration with UW–Madison faculty or research/instructional academic 
staff. Approximately 97–100 Hilldale awards are available each year. The 
student researcher receives $3,000, and the faculty/staff research advisor 
receives $1,000 to help offset research costs (e.g., supplies, faculty or 
student travel related to the project).

HOLSTROM ENVIRONMENTAL RESEARCH 
FELLOWSHIP 
The Holstrom Environmental Research Fellowship (https:// 
awards.advising.wisc.edu/all-scholarships/holstrom-enviromental- 
research-fellowship/) supports undergraduate research done in 
collaboration with UW–Madison faculty or research/instructional academic 
staff. Research proposals must have an environmental focus, and 
applicants must have at least a junior standing at the time of application. 
Apply spring semester to fund work on the project during the summer or 
the following academic year.

UNDERGRADUATE SYMPOSIUM 
The annual Undergraduate Symposium (https:// 
ugradsymposium.wisc.edu/) showcases undergraduate creativity, 
achievement, research, service-learning and community-based research 
from all areas of study at UW–Madison including the humanities, fine arts, 
biological sciences, physical sciences, and social sciences. This past year 
early 700 students presented, displayed, or performed their work for 
members of the university, the surrounding community, family, and friends.

WISCONSIN IDEA FELLOWSHIPS 
Wisconsin Idea Fellowships (https://morgridge.wisc.edu/students/ 
wisconsin-idea-fellowships/) are awarded annually to undergraduate 
student projects working toward solving a challenge identified along with 
local or global community partners. Fellowships are awarded to semester-
long or year-long projects designed by an undergraduate student (or 
group of students) in collaboration with a community organization and a 
UW–Madison faculty or academic staff member.