ZOOLOGY, B.A.

The zoology major is a gateway to the diverse areas of modern biology. The major can be tailored to prepare students for advanced study and careers in many different areas: health professions and public health; law; life sciences research in university, government, and industrial settings; education including museum, nature center, secondary school, and college teaching; biotechnology; and environmental studies.

Specialized preparation is offered in ecology, systematics, limnology, morphology, molecular biology, cellular biology, developmental biology, genetics, neurobiology, physiology, evolution, and behavior. Several possible areas, emphasizing different interests, are outlined in the requirements tab. They include ecology, evolution, and behavior; anatomy, physiology, and organismal biology; and cellular, molecular, and developmental biology. The department encourages undergraduate participation in research and offers summer research scholarships to outstanding students.

GOALS OF THE ZOOLOGY MAJOR

The zoology major emphasizes critical thinking and conceptual skills that come from an understanding of how scientific information is obtained and evaluated, and of how this information can be applied to societal issues. The major provides a solid foundation in genetic, cellular, physiological, ecological, and evolutionary principles, and in the related disciplines of chemistry, physics, and mathematics. As a result, the major fosters an understanding of biological complexity including the interrelationships among humans and natural systems.

The unique characteristics of the zoology major include:

• broad-based, yet integrated training in wide-ranging areas of biology;
• solid foundation of basic principles and processes in biology;
• flexibility and advising needed to allow students to tailor the major to their specific goals;
• wide range of opportunities for undergraduate involvement in independent research and senior thesis.

HOW TO GET IN

All students who are interested in pursuing the zoology major must schedule an appointment with the Zoology Major advisor (https://integrativebiology.wisc.edu/undergraduate-programs/zoology-major/zoology-undergraduate-major-advising/). No major declaration forms are required to declare zoology major.

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/#requirementsforundergraduatemajors) 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

BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

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. View a comparison of the degree requirements here. (https://pubs.wisc.edu/home/archives/ug15/images/babs2009.pdf)

BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics

Fulfilled with completion of University General Education requirements Quantitative Reasoning a (QR A) and Quantitative Reasoning b (QR B) coursework. Please note that some majors may require students to complete additional math coursework beyond the B.A. mathematics requirement.

Foreign Language

Complete the fourth unit of a foreign language; OR
Complete the third unit of a foreign language and the second unit of an additional foreign language

Note: A unit is one year of high school work or one semester/term of college work.

L&S Breadth

Humanities, 12 credits: 6 of the 12 credits must be in literature
Social Sciences, 12 credits
Natural Sciences, 12 credits: must include one 3+ credit course in the biological sciences; must include one 3+ credit course in the physical sciences

Liberal Arts and Science Coursework 108 credits
Depth of Intermediate/Advanced work 60 intermediate or advanced credits
Major Declare and complete at least one (1) major
Total Credits 120 credits
UW-Madison Experience
30 credits in residence, overall
30 credits in residence after the 86th credit
Minimum GPAs
2.000 in all coursework at UW–Madison
2.000 in intermediate/advanced coursework at UW–Madison

NON–L&S STUDENTS PURSING 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 and do not need to complete the L&S breadth and degree requirements above. Please note that the following special degree programs are not considered majors so are not available to non–L&S degree-seeking candidates:

- Applied Mathematics, Engineering and Physics (Bachelor of Science–Applied Mathematics, Engineering and Physics)
- Journalism (Bachelor of Arts–Journalism; Bachelor of Science–Journalism)
- Music (Bachelor of Music)
- Social Work (Bachelor of Social Work)

REQUIREMENTS FOR THE MAJOR
MATH, CHEMISTRY & PHYSICS

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<th>Code</th>
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<tr>
<td>Math—complete one:</td>
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<td>5-10</td>
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<tr>
<td>MATH 112 &amp; MATH 113</td>
<td>Algebra and Trigonometry</td>
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<tr>
<td>MATH 114</td>
<td>Algebra and Trigonometry</td>
<td></td>
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<tr>
<td>MATH 171 &amp; MATH 217</td>
<td>Calculus with Algebra and Trigonometry I &amp; Calculus with Algebra and Trigonometry II</td>
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<tr>
<td>Chemistry—complete one:</td>
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<td>5-9</td>
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<tr>
<td>CHEM 103 &amp; CHEM 104</td>
<td>General Chemistry I &amp; General Chemistry II</td>
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<tr>
<td>CHEM 109</td>
<td>Advanced General Chemistry</td>
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<tr>
<td>Physics—complete one:</td>
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<td>PHYSICS 103 &amp; PHYSICS 104</td>
<td>General Physics &amp; General Physics</td>
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<tr>
<td>PHYSICS 201 &amp; PHYSICS 202</td>
<td>General Physics &amp; General Physics</td>
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<tr>
<td>PHYSICS 207 &amp; PHYSICS 208</td>
<td>General Physics &amp; General Physics</td>
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<td>Total Credits</td>
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30 CREDITS IN BIOLOGY AND ZOOLOGY COURSEWORK

Introductory Biology

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<tr>
<th>Code</th>
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<tr>
<td>Option 1: Introductory Biology</td>
<td>Introductory Biology &amp; Introductory Biology</td>
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<tr>
<td>ZOOLOGY/BOTANY 151 &amp; ZOOLOGY/BOTANY 152</td>
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<tr>
<td>Option 2: BIOCORE—complete both:</td>
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<td>10</td>
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<tr>
<td>BIOCORE 381 &amp; BIOCORE 382</td>
<td>Evolution, Ecology, and Genetics &amp; Evolution, Ecology, and Genetics Laboratory</td>
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<tr>
<td>BIOCORE 383 &amp; BIOCORE 384</td>
<td>Cellular Biology &amp; Cellular Biology Laboratory</td>
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<tr>
<td>Option 3: Animal Biology 5</td>
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<tr>
<td>ZOOLOGY/BIOLOGY 101 &amp; ZOOLOGY/BIOLOGY 102</td>
<td>Animal Biology &amp; Animal Biology Laboratory</td>
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<tr>
<td>Total Credits 5-10</td>
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1 BOTANY/BIOLOGY 130 is recommended, but not required for students pursuing Option 3 (Animal Biology).

Electives

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ZOOLOGY 299</td>
<td>Directed Studies in Zoology</td>
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<tr>
<td>ZOOLOGY 300</td>
<td>Invertebrate Biology and Evolution</td>
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<tr>
<td>ZOOLOGY 301</td>
<td>Invertebrate Biology and Evolution Lab</td>
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<tr>
<td>ZOOLOGY/ENTOM 302</td>
<td>Introduction to Entomology</td>
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</tr>
<tr>
<td>MICROBIO 303</td>
<td>Biology of Microorganisms</td>
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<tr>
<td>ZOOLOGY 303</td>
<td>Aquatic Invertebrate Biology</td>
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<tr>
<td>MICROBIO 304</td>
<td>Biology of Microorganisms Laboratory</td>
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<tr>
<td>ZOOLOGY 304</td>
<td>Marine Biology</td>
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<tr>
<td>F&amp;W ECOL 306</td>
<td>Terrestrial Vertebrates: Life History</td>
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<tr>
<td>BMOLCHEM 314</td>
<td>Introduction to Human Biochemistry</td>
<td></td>
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<tr>
<td>ZOOLOGY/ENVIR ST 315</td>
<td>Limnology-Conservation of Aquatic Resources</td>
<td></td>
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<tr>
<td>ZOOLOGY 316</td>
<td>Laboratory for Limnology-Conservation of Aquatic Resources</td>
<td></td>
</tr>
<tr>
<td>ANAT&amp;PHY 335</td>
<td>Physiology</td>
<td></td>
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<tr>
<td>ZOOLOGY/F&amp;W ECOL 335</td>
<td>Human/Animal Relationships: Biological and Philosophical Issues</td>
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<tr>
<td>ANAT&amp;PHY 338</td>
<td>Human Anatomy Laboratory</td>
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<tr>
<td>M M &amp; I 341</td>
<td>Immunology</td>
<td></td>
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<tr>
<td>ZOOLOGY/ENTOM/M M &amp; I/PATH-BIO 350</td>
<td>Parasitology</td>
<td></td>
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<tr>
<td>ZOOLOGY/ENVIR ST/F&amp;W ECOL 360</td>
<td>Extinction of Species</td>
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<tr>
<td>ENVIR ST/LAND ARC 361</td>
<td>Wetlands Ecology</td>
<td></td>
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<tr>
<td>ZOOLOGY/ENTOM 371</td>
<td>Medical Entomology</td>
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<tr>
<td>ENVIR ST 375</td>
<td>Field Ecology Workshop</td>
<td></td>
</tr>
<tr>
<td>ZOOLOGY 400</td>
<td>Topics in Biology</td>
<td></td>
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<tr>
<td>ZOOLOGY 405</td>
<td>Introduction to Museum Studies in the Natural Sciences</td>
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</tbody>
</table>
ZOOGLOGY/ANTHRO/BOTANY 410  Evolutionary Biology

ZOOGLOGY 425  Behavioral Ecology

ZOOGLOGY 430  Comparative Anatomy of Vertebrates

PSYCH 449  Animal Behavior

ENTOM 450  Basic and Applied Insect Ecology

PSYCH 450  Primates and Us: Insights into Human Biology and Behavior

ZOOGLOGY/BOTANY 450  Midwestern Ecological Issues: A Case Study Approach

PSYCH 454  Behavioral Neuroscience

PSYCH 455  Laboratory in Behavioral Neuroscience

ANTHRO 458  Primate Behavioral Ecology

ZOOGLOGY/BOTANY/F&W ECOL 460  General Ecology

GENETICS 466  Principles of Genetics

ZOOGLOGY 470  Introduction to Animal Development

ZOOGLOGY/BOTANY/ENTOM 473  Plant-Insect Interactions

PATH-BIO/HORT 500  Molecular Biology Techniques

ZOOGLOGY 500  Undergraduate Neurobiology Seminar

BIOCHEM 501  Introduction to Biochemistry

BMOLCHEM 503  Human Biochemistry

BMOLCHEM 504  Human Biochemistry Laboratory

ZOOGLOGY 504  Modeling Animal Landscapes

BIOCHEM 507  General Biochemistry I

ZOOGLOGY/ENVIR ST 510  Ecology of Fishes

ZOOGLOGY/ENVIR ST 511  Ecology of Fishes Lab

ZOOGLOGY/AN SCI/F&W ECOL 520  Ornithology

ZOOGLOGY/AN SCI/F&W ECOL 521  Birds of Southern Wisconsin

ZOOGLOGY/PSYCH 523  Neurobiology

ZOOGLOGY 525  Tropical Herpetology

M M & I/PATH-BIO 528  Immunology

ZOOGLOGY/ENTOM 540  Theoretical Ecology

ZOOGLOGY/GEOSCI 541  Paleobiology

ZOOGLOGY/GEOSCI 542  Invertebrate Paleontology

GENETICS 545  Genetics Laboratory

F&W ECOL/SURG SCI 548  Diseases of Wildlife

ZOOGLOGY/PSYCH 550  Animal Communication and the Origins of Language

ZOOGLOGY 555  Laboratory in Developmental Biology

ZOOGLOGY/GENETICS/MD GENET 562  Human Cytogenetics

ZOOGLOGY/F&W ECOL/LAND ARC 565  Principles of Landscape Ecology

GENETICS 566  Advanced Genetics

ZOOGLOGY 570  Cell Biology

ZOOGLOGY 603  Endocrinology

ZOOGLOGY 604  Computer-based Gene and Disease/Disorder Research Lab

F&W ECOL/ENTOM/PL PATH/SOIL SCI 606  Colloquium in Environmental Toxicology

ZOOGLOGY 611  Comparative and Evolutionary Physiology

ZOOGLOGY 612  Comparative Physiology Laboratory

ZOOGLOGY/NEURODPT/NTP 616  Lab Course in Neurobiology and Behavior

ZOOGLOGY/ANTHRO/NTP/PSYCH 619  Biology of Mind

ZOOGLOGY/NTP 620  Neuroethology Seminar

ZOOGLOGY/ENTOM/GENETICS 624  Molecular Ecology

ZOOGLOGY 625  Development of the Nervous System

ZOOGLOGY/BIOCHEM/PHMCOL-M 630  Cellular Signal Transduction Mechanisms

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

ZOOGLOGY 655  Modeling Neurodevelopmental Disease

ZOOGLOGY/F&W ECOL 660  Climate Change Ecology

ZOOGLOGY/BOTANY/F&W ECOL 672  Historical Ecology

ZOOGLOGY/NEURODPT/PSYCH 674  Behavioral Neuroendocrinology Seminar

ZOOGLOGY 677  Internship in Ecology

ZOOGLOGY 681 & ZOOGLOGY 682  Senior Honors Thesis and Senior Honors Thesis
A maximum of 6 credits of approved non-ZOOLOGY subject courses count toward the 30 credits required for the major. Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

1 Only 3 credits of ANAT&PHY 335 Physiology count toward the 6 credits of approved non-ZOOLOGY subject courses.

RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ZOOLOGY and major courses
- 2.000 GPA on 15 Upper Level major credits, taken in Residence
- 15 credits in ZOOLOGY, or courses that count for the major, taken on the UW–Madison campus

1 ZOOLOGY 299–699, intermediate/advanced BIOCORE, and courses that count toward the major that have an intermediate/advanced designation are considered Upper Level in the major.

HONORS IN THE ZOOLOGY MAJOR

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

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all courses that count toward the major
- Complete 12 credits, taken for Honors, with individual grades of B or better. Select 6 credits from ZOOLOGY 300-680 or approved non-ZOOLOGY subject courses (above).
- Complete ZOOLOGY 681 and ZOOLOGY 682, for a total of 6 credits.

1 A written thesis proposal must be approved by the thesis mentor and a department advisor. While most theses are completed during the fall and spring of a student's senior year, other combinations of terms are possible. More information about the proposal process, timing, and grading of a thesis can be found on the Department of Integrative Biology website.

LEARNING OUTCOMES

1. Connect and describe the concepts that make up the structure and function of all living things through the principles of genetics, cellular biology, and physiology.
2. Demonstrate an understanding of the diversity of life through the principles of evolution.
3. Make connections between organisms, their habitats, and systems through the principles of ecology.
4. Make connections between the biological sciences to humans and ecological systems and appreciate the complexity of these systems.
5. Identify, think through, and solve a problem using quantitative reasoning and critical thinking skills.
6. Develop an ability to plan and carry out scientific experiments by obtaining and evaluating scientific information and effectively communicating information through oral and written presentations.
7. Understand current issues in biology and apply scientific knowledge to societal issues.
8. Make connections between self and natural world, and personal responsibility with social issues.
9. Develop a sense of competence in the field of study through research experiences and written and oral communication of findings.

FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

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<tr>
<th>Credits</th>
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TOTAL DEGREE REQUIREMENTS

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.

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<th>Credits</th>
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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.
Directed Studies allows students to gain experience in a wide range of research areas in biology and to learn research techniques that are not easily taught in the classroom. Such experiences allow students to make more informed decisions about their future goals and careers.

Before students can enroll in ZOOLOGY 299 or ZOOLOGY 699, they must set up an appointment with a professor/mentor of their choice, and work with the professor/mentor to:

1. Decide the specific number of credits, and
2. Plan the work required to earn those credits.

Such plans can involve reviewing relevant literature in the area, developing a proposal for independent research, and/or conducting an experiment in the mentor’s study area.

Students interested in doing in-depth research as undergraduates in an area of interest can elect to do a Senior Thesis or Senior Honors Thesis (see below). Students should contact a department advisor at the beginning of their junior year to explore possible research areas.

SENIOR THESIS

Students interested in making a longer-term commitment to a research project may consider undertaking a Senior Thesis. Students should contact a department advisor during their junior year to explore possible research areas in zoology.

Zoology Senior Thesis Requirements:

1. Approval of a department advisor, and
2. Completion of ZOOLOGY 691 and ZOOLOGY 692, a two-semester thesis research sequence, during the senior year (6 credits).

It is recommended that candidates for the Senior Thesis take ZOOLOGY 699 during second semester junior year to prepare for the thesis.

DISTINCTION IN THE MAJOR

Upon recommendation of the department to the dean, Distinction in the Major is granted at graduation to students not earning Honors in the Major who have done superior work in the major. In addition to the requirements for a senior thesis, to graduate with Distinction in the Zoology Major, students must maintain an overall GPA of 3.300 and a GPA of 3.500 in all zoology courses in the major.

CAREERS

The Department of Integrative Biology encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science (https://careers.ls.wisc.edu/). L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

L&S CAREER RESOURCES

SuccessWorks at the College of Letters & Science helps students leverage the academic skills learned in their major, certificates, and liberal arts degree; explore and try out different career paths; participate in internships; prepare for the job search and/or graduate school applications; and network with professionals in the field (alumni and employers). In short, SuccessWorks helps students in the College of

<table>
<thead>
<tr>
<th>Ethnic Studies</th>
<th>3 L&amp;S Breadth</th>
<th>3</th>
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<tbody>
<tr>
<td>INTER-LS 210</td>
<td>1 Social Science Breadth</td>
<td>3</td>
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<tr>
<td>Social Science Breadth</td>
<td>3 Elective</td>
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<td>Elective</td>
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Junior

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<tr>
<td>PHYSICS 103, 201, or 207</td>
<td>4-5 PHYSICS 104, 202, or 208</td>
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<tr>
<td>I/A COMP SCI, MATH, or STAT (if required for the BS)</td>
<td>3-5 I/A COMP SCI, MATH, or STAT (required for the BS)</td>
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<tr>
<td>I/A ZOOLOGY</td>
<td>3-6 I/A ZOOLOGY</td>
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<tr>
<td>Elective</td>
<td>3 L&amp;S ZOOLOGY</td>
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Senior

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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tr>
<td>Elective</td>
<td>3-4 I/A ZOOLOGY</td>
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<tr>
<td>L&amp;S Breadth</td>
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<tr>
<td>Elective</td>
<td>3-6 Social Science Breadth</td>
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<td>15</td>
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</tbody>
</table>

Total Credits 120

1. Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

Student may also satisfy Introductory Biology with BIOCORE. Consult the advisor for the program regarding this option.

ADVISORY AND CAREERS

ADVISORY

Students are encouraged to consult with a department advisor to construct individual programs appropriate to their own needs. Please use Starfish or call 608-262-2742 to make an appointment with the zoology advisor. iBio Starfish (https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/78583/schedule)

DIRECTED STUDY

The zoology major is an excellent scaffold for students interested in an undergraduate research experience. A maximum of 10 credits of Directed Studies (ZOOLOGY 299, ZOOLOGY 698, ZOOLOGY 699), Senior Thesis (ZOOLOGY 691, ZOOLOGY 692), or Senior Honors Thesis (ZOOLOGY 681, ZOOLOGY 682) will count toward the 30 credits required for the major.

The Department of Integrative Biology offers both ZOOLOGY 299 Directed Studies in Zoology and ZOOLOGY 699 Directed Studies in Zoology. ZOOLOGY 299 is recommended for students before they have completed their introductory biology course sequence, and ZOOLOGY 699 is recommended for students who have completed their introductory biology course sequence. Directed Studies in Zoology are graded on an A to F scale. Students cannot take Directed Studies on a pass/fail basis.
Letters & Science discover themselves, find opportunities, and develop the skills they need for success after graduation.

SuccessWorks can also assist students in career advising, résumé and cover letter writing, networking opportunities, and interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

Students should set up their profiles in Handshake (https://careers.ls.wisc.edu/handshake/) to take care of everything they need to explore career events, manage their campus interviews, and apply to jobs and internships from 200,000+ employers around the country.

- SuccessWorks (https://careers.ls.wisc.edu/)
- Set up a career advising appointment (https://careers.ls.wisc.edu/make-an-appointment/)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)—for more information, see Inter-LS 210: Career Development, Taking Initiative (https://careers.ls.wisc.edu/inter-ls-210-career-development-taking-initiative/)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Com B General Education Requirement)
- Handshake (https://careers.ls.wisc.edu/handshake/)
- Learn how we're transforming career preparation: L&S Career Initiative (http://ls.wisc.edu/lsci/)

PEOPLE

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