ZOOLGY MAJOR (B.A.)

https://colsa.unh.edu/biological-sciences/program/ba/zoology-major

Description

Built upon the common background of the biology core curriculum, the Bachelor of Arts (B.A.) in Zoology is designed for students to create an interdisciplinary or dual major, particularly if they want to pursue public relations, teaching, or other careers in combination with a liberal arts background. Students have more flexibility when choosing courses from the biology core and may enter this program as freshmen or transfer in from other liberal arts or science programs. Students must fulfill a foreign language requirement in lieu of one advanced elective.

New England Regional Student Program

The bachelor’s degree in zoology is one of the specialized curricula recognized by the New England Board of Higher Education and participates in the New England Regional Student Program. Under this program, students from any of the New England states pay the UNH in-state tuition rate plus 75 percent.

General Science Certification

See Department of Education

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOC 411</td>
<td>Introductory Biology: Molecular and Cellular</td>
<td>4</td>
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<tr>
<td>BIOC 412</td>
<td>Introductory Biology: Evolution, Biodiversity and Ecology</td>
<td>4</td>
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<tr>
<td>BIOC 528</td>
<td>Applied Biostatistics I</td>
<td>4</td>
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<tr>
<td>or MATH 424B</td>
<td>Calculus for Life Sciences</td>
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<tr>
<td>BIOC 541</td>
<td>Ecology</td>
<td>4</td>
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<tr>
<td>BMRC 501</td>
<td>Biological Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 411</td>
<td>Introductory Chemistry for Life Sciences</td>
<td>4</td>
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<tr>
<td>GEN 604</td>
<td>Principles of Genetics</td>
<td>4</td>
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<tr>
<td>PHYS 401</td>
<td>Introduction to Physics I</td>
<td>4</td>
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<tr>
<td>ZOOL 400</td>
<td>Professional Perspectives in Zoology</td>
<td>1</td>
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<tr>
<td>ZOOL 518</td>
<td>Comparative Morphology and Biology of Vertebrates</td>
<td>4</td>
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<tr>
<td>ZOOL 625</td>
<td>Principles of Animal Physiology</td>
<td>3</td>
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Zoology Electives

- Select two courses from:
  - ZOOL 629 Developmental Biology
  - ZOOL 613 Animal Behavior
  - ZOOL 690 Evolution
  - Animal Survey Courses (Choose 1)
    - ZOOL 542 Ornithology
    - MEFB 628 Marine Invertebrate Evolution and Ecology
    - ZOOL 710 Sharks and Bony Fishes
    - NR 712 Mammalogy

Biological Science Elective

Select one course

Capstone

1 Biological Sciences Electives (Biology, Zoology, BMS, BMRC, Genetics, and Natural Resources) can be used to satisfy elective requirements.

2 Students must complete a Capstone during their senior year. Students should consult with their advisor to determine coursework that may satisfy this requirement.

Student Learning Outcomes

Students demonstrate that they understand basic principles of Zoology.

- Understand the biodiversity and ecological roles of selected animal taxa.
- Demonstrate understanding of animal physiology and structure at the cellular and organismal levels.
- Describe and apply key principles and mechanisms of evolution and genetics.
- Comprehend the relationship between organisms and their environments.

Students demonstrate that they can undertake scientifically valid methods of inquiry.

- Demonstrate proficiency in searching, reading, and understanding scientific literature.

Students demonstrate that they can think critically and analytically.

- Analyze and present data using appropriate quantitative and graphical tools.

Students demonstrate that they can communicate effectively.

- Develop effective written and oral communication skills for conveying scientific information effectively to a wide audience.

Students practice science responsibly and ethically, and acknowledge the influence of cultural and historical biases in the sciences.