WILDLIFE AND CONSERVATION BIOLOGY MAJOR (B.S.)

https://colsa.unh.edu/natural-resources-environment/program/bs/wildlife-conservation-biology-major

Description

The Wildlife & Conservation Biology major provides students with the knowledge and tools to study, conserve, and manage wildlife and their habitats.

Our students combine science with their passion for nature and the outdoors. Our courses emphasize hands-on experience and place fundamental principles within an applied context. Students are encouraged to conduct research alongside faculty, and faculty actively assist students in obtaining internships.

Our students become wildlife biologists and resource managers at state/ federal agencies and non-profit organizations, conservation law officers, and environmental educators. Many go on to obtain an advanced degree.

Requirements

In addition to the Wildlife and Conservation Biology degree requirements (below), students must complete the University Discovery Program and the University Writing Requirements. Given the flexibility of this major, students may also complete a minor or dual major in a second area of interest, or apply for certification by The Wildlife Society.

Degree Plan

Sample Course Sequence for Wildlife and Conservation Biology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 411</td>
<td>Introductory Biology: Molecular and Cellular</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 412</td>
<td>Introductory Biology: Evolution, Biodiversity and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 401</td>
<td>First-Year Writing</td>
<td>4</td>
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<tr>
<td>EREC 411</td>
<td>Environmental and Resource Economics Perspectives</td>
<td>4</td>
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<tr>
<td>MATH 424B or MATH 420</td>
<td>Calculus for Life Sciences or Finite Mathematics</td>
<td>4</td>
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<tr>
<td>NR 425</td>
<td>Field Dendrology</td>
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<tr>
<td>NR 433</td>
<td>Wildlife Ecology</td>
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<tr>
<td>CHEM 411</td>
<td>Introductory Chemistry for Life Sciences</td>
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<tr>
<td>BMCB 501</td>
<td>Biological Chemistry</td>
<td>4</td>
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<tr>
<td>NR 527</td>
<td>Forest Ecology</td>
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<tr>
<td>or BIOL 541</td>
<td>Ecology</td>
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<td>NR 415</td>
<td>Natural Resources Field Methods</td>
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<tr>
<td>NR 417</td>
<td>Sophomore Seminar: Wildlife and Conservation Biology</td>
<td>2</td>
</tr>
<tr>
<td>NR 658</td>
<td>Introduction to Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 528</td>
<td>Applied Biostatistics I</td>
<td>4</td>
</tr>
<tr>
<td>NR 602</td>
<td>Natural Resources and Environmental Policy</td>
<td>4</td>
</tr>
<tr>
<td>NR 650</td>
<td>Principles of Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>NR 615</td>
<td>Wildlife Habitats</td>
<td>4</td>
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<tr>
<td>or NR 603</td>
<td>Landscape Ecology</td>
<td>4</td>
</tr>
<tr>
<td>NR 640</td>
<td>Wildlife Population Ecology</td>
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<tr>
<td>NR 664</td>
<td>Conservation Genetics</td>
<td>4</td>
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<tr>
<td>or ZOOL 690</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>NR 740</td>
<td>Inventory and Monitoring of Ecological Communities</td>
<td>4</td>
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<tr>
<td>NR 750</td>
<td>Sustaining Biological Diversity (Capstone)</td>
<td>4</td>
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<td>ENGL 501</td>
<td>Introduction to Creative Nonfiction</td>
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<td>ENGL 502</td>
<td>Professional and Technical Writing</td>
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<tr>
<td>ENGL 503</td>
<td>Persuasive Writing</td>
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Additional courses:

- NR 655 Vertebrate Biology
- NR 712 Mammalogy

Credits: 28

Second Year

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<td>Professional and Technical Writing</td>
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<td>ENGL 503</td>
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<td>CMN 500</td>
<td>Public Speaking</td>
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<td>NR 527</td>
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<tr>
<td>NR 712</td>
<td>Mammalogy</td>
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Total Credits: 92-94

1 Can also be met using NR 663 Applied Directed Research in New Zealand UNH EcoQuest (or similar) if taken as a senior. An Honors Thesis/UROP/URA/SURF/Independent Study (or similar) cannot count as a Capstone for this major.
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<thead>
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<tr>
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<td>Field Ornithology</td>
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<td>ZOOL 542</td>
<td>Ornithology</td>
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<td>ZOOL 710</td>
<td>Sharks and Bony Fishes</td>
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### Third Year

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<td>Natural Resources and Environmental Policy</td>
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<tr>
<td>NR 650</td>
<td>Principles of Conservation Biology</td>
<td>4</td>
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<td>NR 615 or NR 603</td>
<td>Wildlife Habitats or Landscape Ecology</td>
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<td>4</td>
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<tr>
<td>NR 664 or ZOOL 690</td>
<td>Conservation Genetics or Evolution</td>
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<td>NR 658</td>
<td>Introduction to Geographic Information Systems</td>
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<tr>
<td>NR 625</td>
<td>Physiological Ecology</td>
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<td>ZOOL 518</td>
<td>Comparative Morphology and Biology of Vertebrates</td>
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<td>ZOOL 625</td>
<td>Principles of Animal Physiology</td>
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<td>ZOOL 613</td>
<td>Animal Behavior</td>
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<td>Sustaining Biological Diversity (Capstone)</td>
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<tr>
<td>NR 740</td>
<td>Inventory and Monitoring of Ecological Communities</td>
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<td>NR 642</td>
<td>Introduction to Biogeography</td>
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<tr>
<td>NR 765</td>
<td>Community Ecology</td>
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<td>NR 603</td>
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**Total Credits** 97-98