

WILDLIFE AND CONSERVATION BIOLOGY MAJOR (B.S.)

<http://colsa.unh.edu/nren/wcb/wildlife-and-conservation-biology-bs>

Description

The wildlife and conservation biology program is for students interested in conservation, ecology, and management of wildlife (animals and plants) and their habitats. Coursework provides a solid foundation in biological sciences, chemistry, math, and the natural history and identification of species native to New England. Students are also introduced to the role of public policy in managing natural resources. While enrolled in the program, students are encouraged to participate in ongoing field and laboratory research being conducted by faculty and graduate students, in addition to obtaining relevant work experience during summers. Upon completion of the degree, students are prepared for employment by state and federal agencies, and non-governmental organizations working as biologists, conservation law officers, and educators. The four-year program also provides a solid foundation for graduate school.

Requirements

Requirements

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|------------------------------|---|---|
| BIOL 411 | Introductory Biology: Molecular and Cellular | 4 |
| BIOL 412 | Introductory Biology: Evolution, Biodiversity and Ecology | 4 |
| EREC 411 | Environmental and Resource Economics Perspectives | 4 |
| MATH 424B or MATH 420 | Calculus for Life Sciences Finite Mathematics | 4 |
| NR 425 | Field Dendrology | 4 |
| NR 433 | Wildlife Ecology | 4 |
| CHEM 411 | Introductory Chemistry for Life Sciences | 4 |
| BMCB 501 | Biological Chemistry | 5 |
| Select one of the following: | | 4 |
| ENGL 501 | Introduction to Creative Nonfiction | |
| ENGL 502 | Professional and Technical Writing | |
| ENGL 503 | Persuasive Writing | |
| CMN 500 | Public Speaking | |
| NR 527 or BIOL 541 | Forest Ecology General Ecology | 4 |
| NR 415 | Natural Resources Field Methods | 2 |
| NR 417 | Sophomore Seminar: Wildlife and Conservation Biology | 2 |
| NR 658 | Introduction to Geographic Information Systems | 4 |
| Select one of the following: | | 4 |
| NR 655 | Vertebrate Biology | |
| NR 712 | Mammalogy | |
| MEFB 510 | Field Ornithology | |
| ZOOL 542 | Ornithology | |

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| ZOOL 710 | Ichthyology | |
| BIOL 528 | Applied Biostatistics I | 4 |
| NR 602 | Natural Resources and Environmental Policy | 4 |
| NR 650 | Principles of Conservation Biology | 4 |
| NR 615 or NR 603 | Wildlife Habitats Landscape Ecology | 4 |
| NR 640 | Wildlife Population Ecology | 4 |
| NR 664 or ZOOL 690 | Conservation Genetics Evolution | 4 |
| Select one of the following: | | 3-5 |
| NR 625 | Physiological Ecology | |
| ZOOL 625 | Principles of Animal Physiology | |
| ZOOL 613 | Animal Behavior | |
| NR 740 | Inventory and Monitoring of Ecological Communities | 4 |
| NR 750 | Sustaining Biological Diversity (Capstone) | 4 |
| Select one of the following: | | 4 |
| NR 642 | Introduction to Biogeography | |
| NR 765 | Community Ecology | |
| NR 603 | Landscape Ecology | |
| Total Credits | | 92-94 |

Degree Plan

| Course | Title | Credits |
|------------------------------|---|---------|
| First Year | | |
| BIOL 411 | Introductory Biology: Molecular and Cellular | 4 |
| BIOL 412 | Introductory Biology: Evolution, Biodiversity and Ecology | 4 |
| ENGL 401 | First-Year Writing | 4 |
| EREC 411 | Environmental and Resource Economics Perspectives | 4 |
| MATH 424B or MATH 420 | Calculus for Life Sciences or Finite Mathematics | 4 |
| NR 425 | Field Dendrology | 4 |
| NR 433 | Wildlife Ecology | 4 |
| Discovery electives | | |
| Credits | | 28 |
| Second Year | | |
| CHEM 411 | Introductory Chemistry for Life Sciences | 4 |
| BMCB 501 | Biological Chemistry | 5 |
| Select one of the following: | | 4 |
| ENGL 501 | Introduction to Creative Nonfiction | |
| ENGL 502 | Professional and Technical Writing | |
| ENGL 503 | Persuasive Writing | |
| CMN 500 | Public Speaking | |
| NR 527 or BIOL 541 | Forest Ecology or General Ecology | 4 |
| NR 415 | Natural Resources Field Methods | 2 |
| NR 417 | Sophomore Seminar: Wildlife and Conservation Biology | 2 |
| NR 658 | Introduction to Geographic Information Systems | 4 |

2 *Wildlife and Conservation Biology Major (B.S.)*

Select one of the following: 4

| | | |
|----------|--------------------|--|
| NR 655 | Vertebrate Biology | |
| NR 712 | Mammalogy | |
| MEFB 510 | Field Ornithology | |
| ZOOL 542 | Ornithology | |
| ZOOL 710 | Ichthyology | |

Discovery electives

Credits 29

Third Year

| | | |
|-----------------------|--|---|
| BIOL 528 | Applied Biostatistics I | 4 |
| NR 602 | Natural Resources and Environmental Policy | 4 |
| NR 650 | Principles of Conservation Biology | 4 |
| NR 615 or NR 603 | Wildlife Habitats or Landscape Ecology | 4 |
| NR 640 | Wildlife Population Ecology | 4 |
| NR 664 or ZOOL 690 | Conservation Genetics or Evolution | 4 |

Select one of the following: 4-5

| | | |
|----------|---------------------------------|--|
| NR 625 | Physiological Ecology | |
| ZOOL 625 | Principles of Animal Physiology | |
| ZOOL 613 | Animal Behavior | |

Discovery electives

Credits 28-29

Fourth Year

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|------------------------------|--|---|
| NR 750 | Sustaining Biological Diversity (Capstone) | 4 |
| NR 740 | Inventory and Monitoring of Ecological Communities | 4 |
| Select one of the following: | | 4 |
| NR 642 | Introduction to Biogeography | |
| NR 765 | Community Ecology | |
| NR 603 | Landscape Ecology | |

Discovery electives

Credits 12

Total Credits 97-98