# 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

# **Degree Requirements**

Minimum Credit Requirement: 128 credits

Minimum Residency Requirement: 32 credits must be taken at UNH

Minimum GPA: 2.0 required for conferral\*

Core Curriculum Required: Discovery & Writing Program Requirements

Foreign Language Requirement: No

All Major, Option and Elective Requirements as indicated. \*Major GPA requirements as indicated.

### **Major 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 <u>certification by The Wildlife Society</u>.

Code	Title	Credits
Required Courses		
NR 433	Wildlife Ecology	4
BIOL 411	Introductory Biology: Molecular and Cellular	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
NR 411	Environmental and Resource Economics Perspectives	4
NR 425	Field Dendrology	4
Math Foundations		
MATH 424B	Calculus for Life Sciences	4
or MATH 420	Finite Mathematics	
Chemistry Foundations		
CHEM 411	Introductory Chemistry for Life Sciences	4
or CHEM 403	General Chemistry I	
Introductory Ecology		

or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods <sup>1</sup> 2           NR 417         Sophomore Seminar Wildlife and Conservation Biology <sup>1</sup> 2           BIOL 528         Applied Biostatistics           4           Animal Morphology, Evolution, and Ecology         8           Select two courses from the following:         8           NR 506         Forest Entomology           Or 720L 555         Introduction to Entomology           NR 712         Mammalogy           or MEFB 535         Marine Mammal Biology           200L 518         Comparative Morphology and Biology of Vertebrates           200L 542         Ornithology           or MEFB 510         Field Ornithology           200L 566         Herpetology           200L 566         Herpetology           200L 710         Sharks: Biology and Conservation           Communicating Science         4           or ENGL 501         Introduction to Creative Nonfection           Or ENGL 502         Professional and Technical Writing           or ENGL 503         Persuaview Writing           Or ENGL 501         Professional and Technical Writing           Evolution         4           Or 200L 690         Evolutio	Capstone NR 750	Sustaining Biological Diversity $^{2}$	4
or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods <sup>1</sup> 2           NR 417         Sophomore Seminar Wildlife and Conservation Biology <sup>1</sup> 2           BIOL 528         Applied Biostatistics           4           Animal Morphology, Evolution, and Ecology         8           Select two courses from the following:         8           NR 506         Forest Entomology           Or 720L 555         Introduction to Entomology           NR 712         Mammalogy           or MEFB 535         Marine Mammal Biology           200L 518         Comparative Morphology and Biology of Vertebrates           200L 542         Ornithology           or MEFB 510         Field Ornithology           200L 566         Herpetology           200L 566         Herpetology           200L 710         Sharks: Biology and Conservation           Communicating Science         4           or ENGL 501         Introduction to Creative Nonfection           Or ENGL 502         Professional and Technical Writing           or ENGL 503         Persuaview Writing           Or ENGL 501         Professional and Technical Writing           Evolution         4           Or 200L 690         Evolutio	Capstone		
no r BIOL 541W         Ecology           NR 415         Natural Resources Field Methods 1         2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         2           BIOL 528         Applied Biostatistics 1         4           Animal Morphology, Evolution, and Ecology         5           Select two courses from the following:         8           NR 956         Forest Entomology           or ZOOL 555         Introduction to Entomology           NR 712         Mammalogy           or MEFB 535         Mammalogy           ZOOL 542         Ornithology           or MEFB 530         Field Omithology           ZOOL 542         Ornithology           or MEFB 741         Sharks: Biology and Conservation           Communications Skills         Heppetology           ZOOL 710         Sharks: Biology and Conservation           Communications Skills         Introduction to Creative Nonfiction           NR 508         Communicating Science         4           or ENGL 501         Introduction to Creative Nonfiction         4           or ENGL 503         Persuasive Writing         4           or EVOL 503         Persuasive Writing         4           or EVOL 690         Evolution <td></td> <td></td> <td></td>			
or BIOL S41W         Ecology           NR 415         Natural Resources Field Methods 1         2           NR 417         Sophomore Seminar: Wildlife and Conservation Biology 1         2           BIOL 528         Applied Biostatistics 1         4           Animal Morphology, Evolution, and Ecology         8           Select two courses from the following:         8           NR 506         Forest Entomology           or ZOOL 555         Introduction to Entomology           NR 712         Mammalogy           zOOL 548         Comparative Morphology and Biology of Vertebrates           ZOOL 549         Ornithology           or MEFB 510         Field Ornithology           ZOOL 566         Herpetology           ZOOL 567         Herpetology           ZOOL 568         Herpetology           ZOOL 568         Herpetology           ZOOL 569         Evolution           ZOOL 560         Herpetology           Or ENGL 501         Introduction to Creative Nonfiction      <	NR 740	Inventory and Monitoring of Ecological Communities	4
or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods 1         2           NR 417         Sophomore Seminar: Wildlife and Conservation Biology 1         2           BIOL 528         Applied Biostatistics 1         4           Animal Marphology, Evolution, and Ecology         8           Select two courses from the following:         8           NR 506         Forest Entomology           or ZOOL 555         Introduction to Entomology           NR 712         Mammalogy           or MEFB 518         Comparative Morphology and Biology of Vertebrates           ZOOL 542         Ornithology           or MEFB 510         Field Ornithology           ZOOL 566         Herpetology           ZOOL 710         Sharks: Biology and Conservation           Communications Skills         Introduction to Creative Nonfiction           Or ENGL 501         Introduction to Creative Nonfiction           Or ENGL 502         Persusaive Writing           Or ENGL 503         Persusaive Writing           Or EVOLL 509         Evolution           An 664         Conservation Genetics and Applied Evolution         4           Or ZOOL 690         Evolution         4           Prolicy Behavior         20	or ZOOL 708	Stream Ecology	
or BIOL 541W         Ecology           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         2           RN 417         Sophomore Seminar. Wildlife and Conservation Biology 1         2           BIOL 528         Applied Biostatistics 1         4           Animal Morphology, Evolution, and Ecology         Select two courses from the following:         8           NR 806         Or 200L 555         Introduction to Entomology           NR 712         Mammalogy         Forest Entomology           OW MEFB 535         Marine Mammal Biology         Comparative Morphology and Biology of Vertebrates           ZOOL 542         Omithology         Omithology           ZOOL 566         Herpetology         Processor           ZOOL 70         Sharks and Bony Fishes         Omithology           ZOOL 567         Herpetology         A           An Explain         Introduction to Creative Nonflotion         4           Or ENGL 501         Introduction to Creative Nonflotion         4           Or ENGL 503         Persuasive Writing         4           Or ENGL 500         Professional and Technical Writing         4           Or EXPLIC 500         Evolution         4           Or ZOOL 690W         Evolution         4	or MEFB 717	Lake Ecology	
NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology 1 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology 1 4 Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Omithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 566 Herpetology  ZOOL 571 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills NR 508 Communications Science 4 a or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or ENGL 503 Persuasive Writing or ENGL 504 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690W Evolution  Public Speaking  Evolution  TOOL 625 Principles of Animal Physiology 3-5 or ZOOL 630W Animal Behavior or ZOOL 630W Animal Behavior Por COOL 630 Principles of Animal Physiology 3-5 or ZOOL 630W Animal Behavior Or ZOOL 630W Animal Behavior Or ZOOL 630W Animal Behavior Por COOL 630W Animal Behavior Or ZOOL 630W Animal Behavior Or ZOOL 630W Animal Behavior Or ZOOL 630W Animal Behavior Or DOLT 500 American Public Policy  NR 605 Principles of Conservation Biology 4  Armerican Public Policy  NR 606 Principles of Conservation Biology 4  Advanced Ecology Elective  NR 641 Wildlife Inabitats 4  NR 650 Principles of Conservation Biology 4  Advanced Ecology Elective  NR 641 Wildlife Disease Ecology 4  or NR 731 (Quantitative Ecology or NR 733 Tropical Ecology or NR 734 Tropical Ecology A Quantitative Ecology Or NR 751 Aquatic Ecosystems			
or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods 1         2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         4           Animal Morphology, Evolution, and Ecology         4           Select two courses from the following:         8           NR 506         Forest Entomology           or XDOL 555         Introduction to Entomology           NR 712         Mammalogy           or MEFB 535         Marine Mammal Biology           ZOOL 518         Comparative Morphology and Biology of Vertebrates           ZOOL 522         Ornithology           or MEFB 510         Field Omithology           ZOOL 542         Ornithology           or MEFB 510         Field Omithology           ZOOL 586         Herpetology           And The State Stat			
or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods 1         2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology 1         4           Animal Morphology, Evolution, and Ecology         Select two courses from the following:         8           NR 506         Forest Entomology         8           NR 712         Mammalogy         6           or MEFB 535         Marine Mammal Biology           ZOOL 518         Comparative Morphology and Biology of Vertebrates           ZOOL 526         Herpetology           ZOOL 566         Herpetology           ZOOL 566         Herpetology           ZOOL 570         Sharks: Biology and Conservation           Communications Skills         NR 508           Or MEFB 741         Sharks: Biology and Conservation           Communications Skills         Introduction to Creative Nonfiction           Or ENGL 501         Introduction to Creative Nonfiction           Or ENGL 502         Professional and Technical Writing           Or ENGL 503         Persuasive Writing           Or ENGL 504         Professional and Technical Writing           Or ENGL 509         Evolutio			
or BIOL 541W Ecology NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Seminar: Wildlife and Conservation Biology 1 2 NR 417 Sophomore Seminar: Wildlife and Conservation Biology 1 4 Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Onithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 570 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communications Skills  NR 508 Communications Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or ENGL 504 Public Speaking  Evolution/Genetics  Wildlife And Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution or ZOOL 690 Evolution Or ZOOL 690 Evolution Or ZOOL 690 Evolution Or ZOOL 690 Animal Physiology 3-5 Or ZOOL 613W Animal Behavior Or ZOOL 650 Natural Resources and Environmental Policy 3-4 Or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy Or MARI 705 Animal Behavior Or DOT 500 American Public Policy NR 654 Ornservation Beory Understanding US Ocean, Coastal and Great Lakes Policy Or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy Or MARI 705 Introduction to Geographic Information Systems A 640 Wildlife Habitats A 105 Picciples of Conservation Biology A Advanced Ecology Elective NR 641 Wildlife Disease Ecology A Or NR 642 One wild Biogeography Or NR 643 Wildlife Disease Ecology A Or NR 642 Silviculture Silviculture			
NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Steminar: Wildlife and Conservation Biology 1 2 NR 417 Sophomore Steminar: Wildlife and Conservation Biology 1 2 Animal Morphology, Evolution, and Ecology  Select two courses from the following:  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 570 Sharks and Bony Fishes or MEFB 511 Field Ornithology  ZOOL 580 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or ENGL 503 Persuasive Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution or ZOOL 690 Evolution or ZOOL 690 Evolution Flysiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 613W Animal Behavior  Policy  NR 602 Natural Resources and Environmental Policy or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy or POIL 500 American Public Policy NR 615 Wildlife Habitats 4 Advanced Ecology Elective NR 688 Introduction to Geographic Information Systems or ESCI 777 GIS for Earth & Environmental Sciences NR 641 Wildlife Disease Ecology or NR 642 Introduction to Biogeography or NR 642 Introduction to Biogeography or NR 642 Introduction to Biogeography or NR 643 Unital title Ecology			
NR 415 Natural Resources Field Methods <sup>1</sup> 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology <sup>1</sup> 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology  ZOOL 556 Herpetology  ZOOL 556 Herpetology  ZOOL 567 Herpetology  ZOOL 568 Communications Skills  NR 508 Communications Skills  NR 508 Communication Schills  NR 508 Professional and Technical Writing  or ENGL 501 Introduction to Creative Nonfiction  or ENGL 502 Professional and Technical Writing  or ENGL 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution  4 or ZOOL 6900 Evolution  Physiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5  or ZOOL 630 Animal Behavior  or ZOOL 625 Principles of Conservation Behavior  or ZOOL 626 Conservation Behavior  Animal Behavior  or DUT 500 American Public Policy  NR 602 Natural Resources and Environmental Policy Ocean, Coastal and Great Lakes Policy  or POLT 500 American Public Policy  NR 615 Wildlife Habitats  4 NR 650 Principles of Conservation Biology  4 Geographic Information Systems  or ESCI 777 GIS for Earth & Environmental Sciences  NR 640 Wildlife Depulation Ecology  4 Advanced Ecology Elective  NR 641 Wildlife Disease Ecology  A rNR 642 Introduction to Biogeography			
NR 415 Natural Resources Field Methods <sup>1</sup> 2 NR4 17 Sophomore Seminar Wildlife and Conservation Biology <sup>1</sup> 2 SBIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology ZOOL 566 Herpetology ZOOL 567 Herpetology ZOOL 568 Communication Skills NR 508 Principles of Animal Physiology Or EVOLUTION Communication Systems NR 664 Conservation Behavior Physiology/Behavior ZOOL 625 Principles of Animal Physiology Or ZOOL 626 Conservation Behavior Physiology/Behavior ZOOL 627 Polition Amimal Behavior Or ZOOL 628 Natural Resources and Environmental Policy Or MARI 705 Introduction to Marine Policy: Understanding US Ocean, Coastal and Great Lakes Policy or POLT 500 American Public Policy NR 615 Wildlife Habitats A 650 Principles of Conservation Biology A 669 or ESCI 777 GIS for Earth & Environmental Sciences NR 640 Wildlife Population Ecology Advanced Ecology Elective NR 641 Wildlife Disease Ecology Advanced Ecology Elective NR 641 Wildlife Disease Ecology			
or BIOL 541W Ecology NR 415 Natural Resources Field Methods ¹ 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology ¹ 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Ornithology ZOOL 566 Herpetology ZOOL 566 Ornithology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 566 Ornithology ZOOL 566 Herpetology ZOOL 566 Ornithology ZOOL 566 Ornithology ZOOL 566 Ornithology ZOOL 566 Ornithology ZOOL 567 Ornithology ZOOL 568 Ornithology ZOOL 569 Professional and Technical Writing Or ENGL 503 Persuasive Writing Or ENGL 504 Professional and Fechnical Writing Or ENGL 505 Principles of Animal Physiology Or ZOOL 690 Evolution Physiology/Behavior ZOOL 690 Evolution Physiology/Behavior ZOOL 625 Principles of Animal Physiology Or ZOOL 626 Conservation Behavior Or ZOOL 630 Animal Behavior Or ZOOL 550 Principles of Conservation Biology Or POLT 500 American Public Policy NR 615 Wildlife Habitats An 650 Principles of Conservation Biology  Geographic Information Systems An 650 Principles of Conservation Biology Advanced Ecology Elective			4
or BIOL 541W Ecology NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology 1 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 567 The Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation Communications Skills NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or CMM 500 Public Speaking Evolution/Genetics NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 637 Policy NR 602 Natural Resources and Environmental Policy 3-4 or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy or POLIT 500 American Public Policy NR 615 Wildlife Habitats 4 NR 650 Principles of Conservation Biology 4 Geographic Information Systems NR 658 Introduction to Geographic Information Systems NR 658 Wildlife Population Ecology 4		Wildlife Disease Ecology	Λ
or BIOL 541W Ecology NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Seminar Wildlife and Conservation Biology 1 2 BIOL 528 Applied Biostatistics I 4 Aminal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology 2OOL 518 Comparative Morphology and Biology of Vertebrates 2OOL 542 Omithology or MEFB 510 Field Omithology 2OOL 566 Herpetology 2OOL 567 Herpetology 2OOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or ENGL 503 Persuasive Writing or CMN 500 Public Speaking  Evolution/Genetics NR 664 Conservation Genetics and Applied Evolution 4 or 2OOL 690 Evolution or 2OOL 690 Evolution or 2OOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology or 2OOL 726 Conservation Behavior or 2OOL 613W Animal Behavior or 2OOL 726 Conservation Behavior Policy NR 602 Natural Resources and Environmental Policy 3-4 or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy or POLT 500 American Public Policy NR 615 Wildlife Habitats A R 658 Introduction to Geographic Information Systems NR 658 Introduction to Geographic Information Systems 4		wilding Population Ecology	4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communication Science 4  or ENGL 501 Introduction to Creative Nonfliction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4  or ZOOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 630 Animal Behavior or ZOOL 760 Conservation Behavior or ZOOL 760 Animal Physiology Animal Phy			
or BIOL 541W Ecology NR 415 Natural Resources Field Methods 1 2 NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 518 Sharks and Bony Fishes or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 510 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation Communications Skills NR 508 Communicating Science 4 Or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or CMN 500 Public Speaking Evolution/Genetics NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior ZOOL 625 Principles of Animal Physiology or ZOOL 613W Animal Behavior or ZOOL 625 Principles of Animal Physiology Or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy OR MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy OR POLIT 500 American Public Policy NR 602 Natural Resources and Environmental Policy American Public Policy NR 615 Wildlife Habitats 4 NR 650 Principles of Conservation Biology 4 Geographic Information Systems			4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology  ZOOL 540 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4  or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4  or ZOOL 690 Evolution  Physiology/Behavior  ZOOL 625 Principles of Animal Physiology or ZOOL 630 Animal Behavior or ZOOL 630 Natural Resources and Environmental Policy or ADRI 705 Natural Resources and Environmental Policy or ADRI 705 Introduction to Marine Policy: Understanding US Ocean, Coastal and Great Lakes Policy or POLIT 500 American Public Policy  NR 615 Wildlife Habitats 4  NR 650 Principles of Conservation Biology 4  4  4  4  4  4  4  4  4  4  4  4  4			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 570 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology or ZOOL 625 Principles of Animal Physiology Or ZOOL 626 Natural Resources and Environmental Policy Or MARI 705 Introduction to Marine Policy Understanding US Ocean, Coastal and Great Lakes Policy Or POLIT 500 American Public Policy NR 615 Wildlife Habitats 4			4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 566 Herpetology  ZOOL 5710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 630 Natural Resources and Environmental Policy Or DOL 750 Natural Resources and Environmental Policy Or DOL 750 American Public Policy  NR 602 Natural Resources and Environmental Policy Or POLT 500 American Public Policy			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4  or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4  or ZOOL 690 Evolution  Physiology/Behavior  ZOOL 625 Principles of Animal Physiology or ZOOL 631W Animal Behavior or ZOOL 625 Principles of Animal Physiology or ZOOL 626 Conservation Behavior Policy  NR 602 Natural Resources and Environmental Policy  NR 602 Natural Resources and Environmental Policy Understanding US Ocean, Coastal and Great Lakes Policy  Introduction to Marine Policy: Understanding US Ocean, Coastal and Great Lakes Policy		•	
or BIOL 541W Ecology NR 415 Natural Resources Field Methods <sup>1</sup> 2 NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following: 8 NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 566 Herpetology ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior ZOOL 625 Principles of Animal Physiology or ZOOL 625 Principles of Animal Physiology or ZOOL 625 Proficiples of Animal Physiology or ZOOL 625 Principles of Animal Physiology or ZOOL 625 Principles of Benavior Policy NR 602 Natural Resources and Environmental Policy 3-4			olicy
or BIOL 541W Ecology NR 415 Natural Resources Field Methods <sup>1</sup> 2 NR 417 Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2 BIOL 528 Applied Biostatistics I 4 Animal Morphology, Evolution, and Ecology Select two courses from the following:  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology NR 712 Mammalogy or MEFB 535 Marine Mammal Biology ZOOL 518 Comparative Morphology and Biology of Vertebrates ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology ZOOL 5710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation Communications Skills NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking Evolution/Genetics NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior ZOOL 625 Principles of Animal Physiology or ZOOL 625 Principles of Animal Physiology or ZOOL 625 Principles of Animal Physiology or 200L 726 Conservation Behavior			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 613W Animal Behavior	Policy		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Physiology/Behavior  ZOOL 625 Principles of Animal Physiology 3-5 or ZOOL 613W Animal Behavior	or ZOOL 726	Conservation Behavior	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Or ZOOL 690W Evolution			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution Or ZOOL 690W Evolution	ZOOL 625		3-5
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4  or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4 or ZOOL 690 Evolution	Physiology/Behavior		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics  NR 664 Conservation Genetics and Applied Evolution 4	or ZOOL 690W	Evolution	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking  Evolution/Genetics			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or CMN 500 Public Speaking		Conservation Genetics and Applied Evolution	4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics 1 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4  or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing or ENGL 503 Persuasive Writing	Evolution/Genetics		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction or ENGL 502 Professional and Technical Writing	or CMN 500	Public Speaking	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4 or ENGL 501 Introduction to Creative Nonfiction	or ENGL 503	Persuasive Writing	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills  NR 508 Communicating Science 4  4	or ENGL 502	Professional and Technical Writing	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation  Communications Skills	or ENGL 501	Introduction to Creative Nonfiction	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods 1 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology 1 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology  ZOOL 710 Sharks and Bony Fishes or MEFB 741 Sharks: Biology and Conservation	NR 508	Communicating Science	4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology  ZOOL 566 Herpetology ZOOL 710 Sharks and Bony Fishes	Communications Skills		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology ZOOL 566 Herpetology	or MEFB 741	Sharks: Biology and Conservation	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology or MEFB 510 Field Ornithology	Z00L 710	Sharks and Bony Fishes	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates  ZOOL 542 Ornithology	ZOOL 566	Herpetology	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology  ZOOL 518 Comparative Morphology and Biology of Vertebrates	or MEFB 510		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy or MEFB 535 Marine Mammal Biology	Z00L 542		
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology  NR 712 Mammalogy			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology or ZOOL 555 Introduction to Entomology		5,	
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8  NR 506 Forest Entomology			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology  Select two courses from the following: 8			
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2  BIOL 528 Applied Biostatistics I 4  Animal Morphology, Evolution, and Ecology		-	0
or BIOL 541W         Ecology           NR 415         Natural Resources Field Methods <sup>1</sup> 2           NR 417         Sophomore Seminar. Wildlife and Conservation Biology <sup>1</sup> 2           BIOL 528         Applied Biostatistics I         4			٥
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2  NR 417 Sophomore Seminar: Wildlife and Conservation Biology <sup>1</sup> 2			4
or BIOL 541W Ecology  NR 415 Natural Resources Field Methods <sup>1</sup> 2			
or BIOL 541W Ecology		1	
-			
NR 527 Forest Ecology 4	or BIOL 541W		

- NR 415 Natural Resources Field Methods & NR 417 Sophomore Seminar. Wildlife and Conservation Biology are 2-credit courses. Students should meet with their advisor for guidance on course load (e.g., 14-15 or 18 cr.) that best accommodate these courses while meeting the 128-credit which requires 32 credits per year (on average).
- <sup>2</sup> Capstone can also be met with NR 663 Applied Directed Research in New Zealand UNH EcoQuest (or similar, approved experience) if taken as a senior, in the final year. An Honors Thesis/UROP/URA/SURF/

Independent Study (or similar) **cannot** count as a Capstone for this major.

#### **Degree Plan**

#### **Sample Degree Plan**

This sample degree plan serves as a general guide; students collaborate with their academic advisor to develop a personalized degree plan to meet their academic goals and program requirements.

First Year		
Fall		Credits
NR 433	Wildlife Ecology	4
NR 425	Field Dendrology	4
BIOL 411	Introductory Biology: Molecular and Cellular	4
ENGL 401	First-Year Writing	4
	Credits	16
Spring		
MATH 424B	Calculus for Life Sciences	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
NR 411	Environmental and Resource Economics Perspectives	4
Discovery Elective	2	4
	Credits	16
Second Year		
Fall		
NR 415	Natural Resources Field Methods	2
NR 527	Forest Ecology	4
CHEM 411	Introductory Chemistry for Life Sciences	4
ZOOL 613W	Animal Behavior	5
	Credits	15
Spring		
NR 417	Sophomore Seminar: Wildlife and Conservation Biology	2
NR 658	Introduction to Geographic Information Systems	4
BIOL 528	Applied Biostatistics I	4
Discovery Elective	2	4
Animal Morpholo	gy, Evolution and Ecology Elective	4
	Credits	18
Third Year		
Fall		
NR 615	Wildlife Habitats	4
ENGL 501	Introduction to Creative Nonfiction	4
ZOOL 690 or ZOOL 690W	Evolution or Evolution	4
Discovery Elective	2	4
	Credits	16
Spring		
NR 602	Natural Resources and Environmental Policy	4
NR 650	Principles of Conservation Biology	4

Discovery Elective		4
Elective		4
	Credits	16
Fourth Year		
Fall		
NR 642	Introduction to Biogeography	4
NR 740	Inventory and Monitoring of Ecological Communities	4
Elective		4
Elective		4
	Credits	16
Spring		
NR 640	Wildlife Population Ecology	4
NR 750	Sustaining Biological Diversity	4
Elective		4
Animal Morphology, Evolution and Ecology Elective		4
	Credits	16
	Total Credits	129

## **Student Learning Outcomes**

# Program Learning Outcomes Students will:

- Understand the ecological and societal value of biodiversity, sustainability, and environmental stewardship;
- learn/understand ecological concepts and fundamental principles and techniques to manage and conserve wildlife habitat and populations;
- know the taxonomy, ecology, and natural history of the majority of native flora and fauna in New England;
- locate, evaluate, and summarize information from both print and electronic media relevant to wildlife and conservation biology issues;
- effectively communicate scientific information in written and oral formats;
- master mathematical, statistical, and study design knowledge and skills, and use state-of-the-art software, hardware, and analytical techniques relevant to wildlife and conservation biology;
- · be familiar with a variety of natural resource laws and regulations;
- understand how to integrate relevant social sciences and human dimensions approaches to address wildlife and conservation biology issues as part of multidisciplinary teams.