Imagine a career conserving, protecting, regulating, and managing our nation’s fish and wildlife resources. This major prepares graduates to address complex environmental issues and to interact professionally with a multitude of natural resources disciplines to develop solutions to problems.

Make an appointment to learn more about options in our fisheries and wildlife major.

**Contact Information**

Dr. Mark Pegg  
Undergraduate Coordinator  
402 Hardin Hall  
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University of Nebraska  
Lincoln, NE 68583-0981  
Phone: 402-472-7472  
email: elyse.watson@unl.edu

**Career Path**

Fisheries Researcher, Wildlife Biologist, Refuge Manager, Conservation Law Officer, Marine Biologist, Endangered Species Manager, Private Lands Habitat Manager, Water Quality Specialist, Park Ranger, Environmental Educator, Zoo Animal Keeper

**Special Emphasis Courses**


**Internships Available**

Nebraska Game and Parks Commission, the U.S. Fish and Wildlife Service, Wyoming Game and Fish, U.S. Geological Survey, Omaha’s Henry Doorly Zoo & Aquarium, and many other state and federal agencies, non-government organizations, and non-profits.
Options in the Fisheries and Wildlife Major

The Fisheries and Wildlife major offers seven different options that allow students to develop an individualized area of study with their career goal in mind as well as providing excellent preparation for graduate study.

Fisheries Ecology and Management
As a Fisheries Biologist, you could spend your time investigating aquatic habitats, managing fish populations, setting angler regulations or conducting research on ocean fishes! This option is designed for students considering careers in fisheries biology, aquatic ecology, limnology, and fisheries management. Students completing the Fisheries Ecology and Management option qualify for professional certification in the American Fisheries Society (AFS).

Wildlife Ecology and Management
Does managing songbird or elk populations, setting waterfowl harvest regulations, or conducting research on endangered species sound like something you’d like to do? This option is designed for students considering careers in wildlife biology, wildlife ecology, and wildlife research or wildlife management. Students completing the Wildlife Ecology and Management option qualify for professional certification through The Wildlife Society as an Associate Wildlife Biologist.

Conservation Biology
Think working with threatened or endangered species around the globe and helping people preserve habitat while improving economic opportunities is the right fit for you? This option is designed for students considering careers in conservation, biodiversity, restoration ecology and policy.

Zoo Animal Care
Picture a career caring for animals, rehabilitating sick or injured wildlife, or running the tiger exhibit at a zoo! This option is designed for students considering careers in zoo keeping, zoo animal care, animal rehabilitation, and animal training.

Habitat Management
Imagine a career managing wetland, forest, or grassland habitats on public or private lands! This option is designed for students considering careers in habitat management, private lands management or public lands (e.g., National Wildlife Refuge) management.

Law Enforcement
Do you want to work with the public to protect wildlife resources by enforcing hunting and fishing regulations or to stop the smuggling of protected animals? This option is designed for students considering careers in wildlife law enforcement. Completion of this program also provides excellent preparation for entry into law enforcement academies.

Nature-Based Entrepreneurship
Ever think about a career in industry or self-employment as land or resource managers, ecotourism operators, hunting guides, or nature-based artists? Completion of this program provides a 12-credit minor in the Engler Entrepreneurship program in CASNR and prepares students to run their own nature-based business.
### Fisheries and Wildlife Major Requirements

**2017-2018 Required Courses (120 credit hours)**

**UNL College of Agricultural Sciences and Natural Resources**

**Bolded credit hours** indicate the number of credits needed for that subject area. Subject areas may have multiple classes to choose from to fulfill that requirement.

### CASNR REQUIRED COURSES

#### CASNR INTEGRATED COURSE

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIL 101 Science and Decision-Making for a Complex World</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** This course will be waived for students entering the major with > 15 credits.

#### MATH AND STATISTICS

**Mathmatics (ACE 3)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 104 Applied Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106 Calculus I</td>
<td>5</td>
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</table>

**Statistics**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 218 Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 380 Statistics &amp; Applications</td>
<td>3</td>
</tr>
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</table>

**NOTE:** STAT 380 requires MATH 107.

#### COMMUNICATIONS

**Written Communication (ACE 1)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 150, ENGL 151, ENGL 254, JGEN 120, JGEN 200, JGEN 300</td>
<td>3</td>
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**Oral communication (ACE 2)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ALEC 102, COMM 101, COMM 209, COMM 210, COMM 215, COMM 283, COMM 286, JGEN 300, MRKT 257, NRES 260, TMFD 121</td>
<td>3</td>
</tr>
</tbody>
</table>

#### ECONOMICS, HUMANITIES AND SOCIAL SCIENCES

**Economics (ACE 6)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ECON 200, ECON 211, ECON 212, AECN 141</td>
<td>3</td>
</tr>
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#### ACE Courses

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ACE 5 - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ACE 7 - Arts</td>
<td>3</td>
</tr>
<tr>
<td>ACE 8 - Civics, Ethics, and Stewardship</td>
<td>3</td>
</tr>
<tr>
<td>ACE 9 - Global Diversity</td>
<td>3</td>
</tr>
</tbody>
</table>

#### BASIC SCIENCES

**Chemistry**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105 &amp; CHEM 106 Chemistry in Context I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 109 &amp; CHEM 110 General Chemistry I &amp; II</td>
<td>8</td>
</tr>
</tbody>
</table>

### Biological Sciences

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIFE 120 &amp; LIFE 120L Fundamentals of Biology I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>LIFE 121 &amp; LIFE 121L Fundamentals of Biology II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRO 315 Genetics or BIOS 206 General Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Choose one:**

- NRES 220 & NRES 222 Principles of Ecology & Lab (BIOS 220 & BIOS 222) or
- BIOS 207 Ecology & Evolution

### Earth Sciences

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL 153 Soil Resources (AGRO 153/HORT 153)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 100 Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 101 or GEOL 101H Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 106 Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 109 Oceanography</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** SOIL 153 is strongly recommended for students in the Habitat Management and Wildlife Ecology and Management options.

### Physical Sciences

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSYM 109 Physical Principles in Agriculture &amp; Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 141 Elementary General Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 151 Elements of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 211 General Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

**NOTE:** MSYM 109 or PHYS 151 are recommended for students only taking one semester of physics.

### Fisheries and Wildlife Required Courses

#### Orientation

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 101 Natural Resources Orientation</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE:** This course will be waived for students entering the major with > 15 credits.

#### Natural Resource Policy Course

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 345 Policy Issues in Agriculture &amp; Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>AECN 357 Natural Resource &amp; Environmental Law (NREE 357)</td>
<td>3</td>
</tr>
<tr>
<td>CRPL 470 Environmental Planning &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>NRES 323 Natural Resources Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Ecology

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 311 Wildlife Ecology &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 315 Human Dimensions of Fish &amp; Wildlife Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Approximately half of the 120 credits needed to earn a degree in Fisheries and Wildlife will come from these required courses. The other half will come from the chosen program option(s) picked by the student.
Imagine a career managing fish populations, setting angler regulations, or conducting research on fishes! You can realize your career goals through our fisheries ecology & management option.

Make an appointment to learn more about options in our fisheries and wildlife major.

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Career Path

Fisheries Biologist, Aquatic Ecologist, Reservoir Manager, Environmental Program Officer, Environmental Protection Specialist, Stock Assessment Scientist, Fisheries Data Editor, Aquaculture Tagging Coordinator

Special Emphasis Courses

Fisheries Science, Limnology, Ichthyology, Aquatic Insects, Conservation Biology, Stream and River Ecology, Water Law, Lake and Reservoir Restoration

Internships Available

Our students have enjoyed internships with the Nebraska Game and Parks Commission, the U.S. Fish and Wildlife Service, Wyoming Game and Fish, Omaha’s Henry Doorly Zoo and other state and federal agencies.
## Fisheries and Wildlife Major Requirements

### FISHERIES ECOLOGY AND MANAGEMENT OPTION

#### 2017-2018 Required Courses

**UNL College of Agricultural Sciences and Natural Resources**

Bolded credit hours indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>12 credit hours</th>
<th>Human Dimensions</th>
<th>3 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field/Lab</strong></td>
<td></td>
<td><strong>AECN 345 Policy Issues in Agriculture &amp; Natural Resources</strong></td>
<td>3</td>
</tr>
<tr>
<td>NRES 463 &amp; NRES 463L Fisheries Science &amp; Lab (capstone experience) (ACE 10)</td>
<td>4</td>
<td>AECN 357 Natural Resource &amp; Environmental Law (NREE 357)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 459 Limnology (BIOS 459/WATS 459)</td>
<td>4</td>
<td>CRPL 470 Environmental Planning &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Zoology</strong></td>
<td>4 credit hours</td>
<td><strong>NRES 323 Natural Resources Policy</strong></td>
<td>3</td>
</tr>
<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
<td>4</td>
<td><strong>NREE 456 Environmental Law (AECN 456)</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Career Experience</strong></td>
<td>1-3 credit hours</td>
<td><strong>NREE 457 Water Law (AECN 457/WATS 457)</strong></td>
<td>3</td>
</tr>
<tr>
<td>NRES 399 Independent Research</td>
<td>1-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 497 Career Experiences in Natural Resource Sciences</td>
<td>1-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 499 Thesis Research</td>
<td>3-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 499H Honors Thesis</td>
<td>3-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Animal Course</strong></td>
<td>4 credit hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Plant Course</strong></td>
<td>3-4 credit hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 245 Introduction to Grassland Ecology &amp; Management (AGRO 245)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
<td>3</td>
<td>BIOS 373 Biopsychology (PSYC 373)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 310 Introduction to Forest Management</td>
<td>4</td>
<td>BIOS 381 Invertebrate Zoology</td>
<td>5</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology</td>
<td>4</td>
<td>BIOS 454 Ecological Interactions (NRES 454)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
<td>3</td>
<td>BIOS 462 Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td><strong>Aquatic Ecology</strong></td>
<td>3-4 credit hours</td>
<td>BIOS 468 Field Animal Behavior</td>
<td>5</td>
</tr>
<tr>
<td>NRES 402 &amp; NRES 402L Aquatic Insects &amp; Lab (BIOS 485/ENTO 402)</td>
<td>3</td>
<td>BIOS 472 Evolution</td>
<td>3</td>
</tr>
<tr>
<td>NRES 481 Stream &amp; River Ecology (BIOS 481/WATS 481)</td>
<td>4</td>
<td>BIOS 475 Ornithology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Geographic Information Science (GIS)</strong></td>
<td>2-4 credit hours</td>
<td>BIOS 474 Herpetology (NRES 474)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)</td>
<td>3</td>
<td>BIOS 476 Mammalogy (NRES 476)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 412 Introduction to Geographic Information Systems (GEOG 412)</td>
<td>4</td>
<td>BIOS 487 Field Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 418 Introduction to Remote Sensing (GEOG 418)</td>
<td>4</td>
<td>ENTO 402 &amp; ENTO 402L Aquatic Insects &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS) (GEOG 427)</td>
<td>2</td>
<td>ENTO 411 Field Entomology (BIOS 482)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Water Resources</strong></td>
<td>3-4 credit hours</td>
<td>NRES 211 Introduction to Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 208 Applied Climate Sciences</td>
<td>4</td>
<td>NRES 308 Biogeography (GEOG 308/GEOL 308)</td>
<td>3</td>
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<tr>
<td>METR 100 Weather &amp; Climate</td>
<td>4</td>
<td>NRES 388 Employment Seminar (AGRI 388)</td>
<td>1</td>
</tr>
<tr>
<td>NRES 281 Introduction to Water Science (GEOG 281/WATS 281)</td>
<td>3</td>
<td>NRES 423 Integrated Resources Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NRES 433 Wildlife Management Techniques &amp; NRES 233 Wildlife Field Techniques</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NRES 434 Environmental Education &amp; Interpretation (ENVR 434)</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>NRES 484 Water Resources Seminar (AGRO 484/GEOG 484/GEOL 484/WATS 484)</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>NRES 489 Ichthyology (BIOS 489)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NRES 492 Study Tours in Natural Resource Management</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHIL 225 Environmental Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>
Imagine a career managing elk populations, setting waterfowl harvest regulations, conducting research on endangered species! You can realize your career goals through our wildlife ecology & management option.

Make an appointment to learn more about options in our fisheries and wildlife major.

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**Career Path**

Refuge Manager, Conservation Officer, Farm Bill Biologist, Marine Biologist, Endangered Species Manager, Environmental Scientist, Private Lands Habitat Manager, Park Ranger, Environmental Educator, Zoo Animal Keeper

**Special Emphasis Courses**


**Internships Available**

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**WILDLIFE ECOLOGY AND MANAGEMENT OPTION**

*UNL College of Agricultural Sciences and Natural Resources*

2017-2018 Required Courses

Bolded credit hours indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

### Required Courses

<table>
<thead>
<tr>
<th>Field/Lab (ACE 10)</th>
<th>4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 433 Wildlife Management Techniques &amp; NRES 233 Wildlife Field Techniques</td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>Conservation</th>
<th>4 credit hours</th>
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</thead>
<tbody>
<tr>
<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
<td>4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Zoology</th>
<th>4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Experience</th>
<th>1-3 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 399 Independent Research</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
</tr>
<tr>
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<td>1-6</td>
</tr>
<tr>
<td>NRES 499 Thesis Research</td>
<td>3-6</td>
</tr>
<tr>
<td>NRES 499H Honors Thesis</td>
<td>3-6</td>
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</table>

<table>
<thead>
<tr>
<th>Animal Course</th>
<th>7-8 credit hours</th>
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</thead>
<tbody>
<tr>
<td>BIOS 475 Ornithology</td>
<td>3</td>
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<tr>
<td>NRES 474 Herpetology (BIOS 474)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 476 Mammalogy (BIOS 476)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant Course</th>
<th>3-4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 245 Introduction to Grassland Ecology &amp; Management (AGRO 245)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 310 Introduction to Forest Management</td>
<td>4</td>
</tr>
<tr>
<td>NRES 417 Agroforestry Systems in Sustainable Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 435 Agroecology (AGRO 435/HORT 435)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant ID or Taxonomy</th>
<th>3-4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 444 Ecosystem Monitoring &amp; Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geographic Information Science (GIS)</th>
<th>2-4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 412 Introduction to Geographic Information Systems (GEOG 412)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 418 Introduction to Remote Sensing (GEOG 418)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS)</td>
<td>2</td>
</tr>
<tr>
<td>NRES 420 Applications of Remote Sensing in Agriculture &amp; Natural Resources (AGRO 419/GEOG 419/GEOL 419)</td>
<td>4</td>
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</tbody>
</table>

### Policy

<table>
<thead>
<tr>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>NREE 456 Environmental Law (AECN 456)</td>
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<tr>
<td>NREE 457 Water Law (AECN 457/WATS 457)</td>
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### Climate Course

<table>
<thead>
<tr>
<th>3-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 208 Applied Climate Sciences</td>
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<tr>
<td>METR 100 Weather &amp; Climate</td>
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### Written Communication

<table>
<thead>
<tr>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>Any ACE 1 course</td>
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### Optional Electives

<table>
<thead>
<tr>
<th>12 credit hours</th>
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<tbody>
<tr>
<td>AECN 265 Resource &amp; Environmental Economics I (NREE 265)</td>
</tr>
<tr>
<td>AGRO 489 Urbanization of Rural Landscapes (CRPL 489/HORT 489)</td>
</tr>
<tr>
<td>BIOS 454 Ecological Interactions (NRES 454)</td>
</tr>
<tr>
<td>BIOS 462 Animal Behavior</td>
</tr>
<tr>
<td>BIOS 468 Field Animal Behavior</td>
</tr>
<tr>
<td>BIOS 472 Evolution</td>
</tr>
<tr>
<td>BIOS 487 Field Parasitology</td>
</tr>
<tr>
<td>NRES 211 Introduction to Conservation Biology</td>
</tr>
<tr>
<td>NRES 270 Biological Invaders (AGRO 270/HORT 270/PLPT 270)</td>
</tr>
<tr>
<td>NRES 308 Biogeography (GEOG 308/GEOL 308)</td>
</tr>
<tr>
<td>NRES 348 Wildlife Damage Management</td>
</tr>
<tr>
<td>NRES 388 Employment Seminar (AGRI 388)</td>
</tr>
<tr>
<td>NRES 423 Integrated Resources Management</td>
</tr>
<tr>
<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
</tr>
<tr>
<td>NRES 434 Environmental Education &amp; Interpretation (ENVR 434)</td>
</tr>
<tr>
<td>NRES 459 Limnology (BIOS 459/WATS 459)</td>
</tr>
<tr>
<td>NRES 463 &amp; NRES 463L Fisheries Science &amp; Lab</td>
</tr>
<tr>
<td>NRES 468 Wetlands (BIOS 458/WATS 468)</td>
</tr>
<tr>
<td>NRES 484 Water Resources Seminar (AGRO 484/GEOG 484/GEOL 484/WATS 484)</td>
</tr>
<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
</tr>
<tr>
<td>NRES 492 Study Tours in Natural Resource Management</td>
</tr>
<tr>
<td>NRES 495 Grasslands Seminar (AGRO 495/ENTO 495/GRAS 495/HORT 495/RNGE 495/SOIL 495)</td>
</tr>
<tr>
<td>PHIL 225 Environmental Ethics</td>
</tr>
<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
</tr>
<tr>
<td>NRES 492 Study Tours in Natural Resource Management</td>
</tr>
<tr>
<td>PHIL 225 Environmental Ethics</td>
</tr>
</tbody>
</table>
From helping preserve habitat while improving economic opportunities to designing nature reserves, you can realize your career goals helping threatened and endangered species through our conservation biology option.

Make an appointment to learn more about options in our fisheries and wildlife major.

Contact Information

**Dr. Mark Pegg**  
Undergraduate Coordinator  
402 Hardin Hall  
School of Natural Resources  
University of Nebraska  
Lincoln, NE 68583-0974  
Phone: 402-472-6824  
email: mpegg2@unl.edu

**Elyse Watson**  
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102A Hardin Hall  
School of Natural Resources  
University of Nebraska  
Lincoln, NE 68583-0981  
Phone: 402-472-7472  
email: elyse.watson@unl.edu

Career Path

Conservation Geneticist, Research Biologist, Restoration Ecologist, Refuge Manager, Endangered Species Manager, Park Ranger, Environmental Education, Zoo Animal Keeper

Special Emphasis Courses


Internships Available

Our students have enjoyed internships with the Nature Conservancy, the National Park Service, Omaha’s Henry Doorly Zoo and Aquarium, the Tern and Plover Conservation Partnership, the Platte River Whooping Crane Trust and other state and federal agencies.
### Required Courses

<table>
<thead>
<tr>
<th>Capstone Course</th>
<th>4 credit hours</th>
</tr>
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<tbody>
<tr>
<td>NRES 433 Wildlife Management Techniques &amp; NRES 233 Wildlife Field Techniques (capstone experience) (ACE 10)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 463 &amp; NRES 463L Fisheries Science &amp; Lab (capstone experience) (ACE 10)</td>
<td>4</td>
</tr>
<tr>
<td>Conservation</td>
<td>6 credit hours</td>
</tr>
<tr>
<td>NRES 211 Introduction to Conservation Biology</td>
<td>3</td>
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<tr>
<td>BIOS 416 Biodiversity Conservation</td>
<td>3</td>
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<tr>
<td>Zoology</td>
<td>4 credit hours</td>
</tr>
<tr>
<td>BIOS 381 Invertebrate Zoology</td>
<td>4</td>
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<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
<td>4</td>
</tr>
<tr>
<td>Career Experience</td>
<td>1-3 credit hours</td>
</tr>
<tr>
<td>NRES 399 Independent Research</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 497 Career Experiences in Natural Resource Sciences</td>
<td>1-6</td>
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<tr>
<td>NRES 499 Thesis Research</td>
<td>3-6</td>
</tr>
<tr>
<td>NRES 499H Honors Thesis</td>
<td>3-6</td>
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### Required Courses

<table>
<thead>
<tr>
<th>Plant Course</th>
<th>3-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 245 Introduction to Grassland Ecology &amp; Management (AGRO 245)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 310 Introduction to Forest Management</td>
<td>4</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
<td>3</td>
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### Required Courses

<table>
<thead>
<tr>
<th>Geographic Information Science (GIS)</th>
<th>2-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 412 Introduction to Geographic Information Systems (GEOG 412)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 418 Introduction to Remote Sensing (GEOG 418)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS) (GEOG 427)</td>
<td>2</td>
</tr>
<tr>
<td>NRES 420 Applications of Remote Sensing in Agriculture &amp; Natural Resources (AGRO 419/GEOG 419/GEOL 419)</td>
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### Optional Electives

<table>
<thead>
<tr>
<th>22 credit hours</th>
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<tbody>
<tr>
<td>AGRO 489 Urbanization of Rural Landscapes (CRPL 489/HORT 489)</td>
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<tr>
<td>BIOS 462 Animal Behavior</td>
</tr>
<tr>
<td>BIOS 468 Field Animal Behavior</td>
</tr>
<tr>
<td>BIOS 472 Evolution</td>
</tr>
<tr>
<td>BIOS 487 Field Parasitology</td>
</tr>
<tr>
<td>NRES 208 Applied Climate Sciences</td>
</tr>
<tr>
<td>NRES 270 Biological Invaders (AGRO 270/HORT 270/PLPT 270)</td>
</tr>
<tr>
<td>NRES 308 Biogeography (GEOG 308/GEOL 308)</td>
</tr>
<tr>
<td>NRES 348 Wildlife Damage Management</td>
</tr>
<tr>
<td>NRES 388 Employment Seminar (AGRI 388)</td>
</tr>
<tr>
<td>NRES 413 Environmental Leadership (ALEC 410)</td>
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<tr>
<td>NRES 423 Integrated Resources Management</td>
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<tr>
<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
</tr>
<tr>
<td>NRES 434 Environmental Education &amp; Interpretation (ENVR 434)</td>
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<tr>
<td>NRES 459 Limnology (BIOS 459/WATS 459)</td>
</tr>
<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
</tr>
<tr>
<td>NRES 492 International Study Tours in Natural Resource Management</td>
</tr>
<tr>
<td>NRES 495 Grasslands Seminar (AGRO 495, ENTO 495, GRAS 495, HORT 495, RNGE 495, SOIL 495)</td>
</tr>
</tbody>
</table>

**Bolded credit hours** indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

NOTE: This requirement can not be used to satisfy the Natural Resource Policy course requirement. Students in the Conservation Biology option must take this requirement in addition to the NR Policy course requirement.

NOTE: Students should select sociology or other social science courses for their ACE requirements to meet pre-requisites for these upper level SOCI or ANTH courses.
Imagine a career caring for animals, rehabilitating sick or injured wildlife, or running the tiger exhibit at a zoo! You can realize these career goals through our zoo animal care option.

Make an appointment to learn more about options in our fisheries and wildlife major.

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Lincoln, NE  68583-0981
Phone: 402-472-7472
email: elyse.watson@unl.edu

Career Path

Zoo Keeper, Animal Rehabilitation Specialist, Animal Trainer, Environmental Educator,
Animal Nutritionist, Conservation Biologist

Special Emphasis Courses


Internships Available

Omaha’s Henry Doorly Zoo & Aquarium, the Lincoln Children’s Zoo, Raptor Recovery, Blank Park Zoo, Pioneer’s Park Nature Center, National Parks Service, and other organizations.
Fisheries and Wildlife Major Requirements  
**ZOO ANIMAL CARE OPTION**  
2017-2018 Required Courses  
UNL College of Agricultural Sciences and Natural Resources

Bolded **credit hours** indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

### Required Courses

#### Field/Lab (ACE 10)  
4 credit hours

- NRES 433 Wildlife Management Techniques & NRES 233 Wildlife Field Techniques  
- NRES 463 & NRES 463L Fisheries Science & Lab  

#### Conservation  
3 credit hours

- NRES 211 Introduction to Conservation Biology  

#### Zoology  
4 credit hours

- NRES 386 Vertebrate Zoology (BIOS 386)  

#### Career Experience  
1-3 credit hours

- NRES 399 Independent Research  
- NRES 496 Independent Study  
- NRES 497 Career Experiences in Natural Resource Sciences  
- NRES 499 Thesis Research  
- NRES 499H Honors Thesis  

#### Animal Course  
7-8 credit hours

- BIOS 475 Ornithology  
- NRES 474 Herpetology (BIOS 474)  
- NRES 476 Mammalogy (BIOS 476)  
- NRES 489 Ichthyology (BIOS 489)  

#### Plant Course  
3-4 credit hours

- NRES 245 Introduction to Grassland Ecology & Management (AGRO 245)  
- AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)  
- AGRO 442 Wildland Plants (NRES 442/RNGE 442)  
- NRES 310 Introduction to Forest Management  
- NRES 417 Agroforestry Systems in Sustainable Agriculture (HORT 418)  
- NRES 424 Forest Ecology  
- NRES 426 Invasive Plants (AGRO 426/HORT 426)  
- NRES 435 Agroecology (AGRO 435/HORT 435)  

#### Animal Behavior  
3-4 credit hours

- ASCI 271 Companion Animal Behavior  
- BIOS 462 Animal Behavior  
- BIOS 468 Field Animal Behavior  

#### Nutrition Course  
3 credit hours

- ASCI 320 Animal Nutrition & Feeding  
- ASCI 321 Companion Animal Nutrition  

#### Education Courses  
3 credit hours

- NRES 434 Environmental Education & Interpretation (ENVR 434)  
- ALEC 305 Presentation Strategies for Agricultural Audiences  
- ALEC 412 Multimedia Applications for Education & Training  
- EDPS 457 Learning & Motivation Principles for Secondary Teaching  

#### Anatomy and Physiology Course  
4 credit hours

- ASCI 240 Anatomy & Physiology of Domestic Animals  
- BIOS 213 & BIOS 213L Human Physiology & Lab  
- BIOS 388 Comparative Anatomy of the Vertebrates  

#### Optional Electives  
14 credit hours

- AECN 265 Resource & Environmental Economics I (NREE 265)  
- ASCI 171 Human-Companion Animal Interactions  
- ASCI 251 Introduction to Companion Animals  
- ASCI 271 Companion Animal Behavior  
- ASCI 341 Physiology & Management of Reproduction  
- ASCI 370 Animal Welfare  
- ASCI 421 Advanced Animal Nutrition  
- BIOS 312 Microbiology  
- BIOS 373 Biopsychology (PSYC 373)  
- BIOS 472 Evolution  
- BIOS 487 Field Parasitology  
- NRES 270 Biological Invaders (AGRO 370/HORT 270/PLPT 270)  
- NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)  
- NRES 308 Biogeography (GEOG 308/GEOL 308)  
- NRES 348 Wildlife Damage Management  
- NRES 388 Employment Seminar (AGRI 388)  
- NRES 412 Introduction to Geographic Information Systems (GEOG 412)  
- NRES 418 Introduction to Remote Sensing (GEOG 418)  
- NRES 427 Introduction to the Global Positioning System (GPS) (GEOG 427)  
- NRES 428 Leadership in Public Organizations (ALEC 428)  
- NRES 450 Biology of Wildlife Populations (BIOS 450)  
- NRES 459 Limnology (BIOS 459/WATS 459)  
- NRES 487 Introduction to Landscape Ecology (LARC 487)  
- NRES 492 Study Tours in Natural Resource Management  
- PHIL 225 Environmental Ethics  
- VBMS 303 Principles & Prevention of Livestock Diseases  
- VBMS 408 Functional Histology (BIOS 408)
Imagine a career managing wetland, forest or grassland habitats on public or private lands! You can realize your career goals through our habitat management option.

Make an appointment to learn more about options in our fisheries and wildlife major.

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**Career Path**

Private Lands Biologist, Habitat Specialist, Refuge Manager, Environmental Educator, Research Technician, Invasive Species Biologist, Extension Educator, and Environmental Consultant

**Special Emphasis Courses**


**Internships Available**

Our students have enjoyed internships with the Nature Conservancy, the National Park Service, Nebraska Game and Parks Commission, U.S. Fish and Wildlife Service, U.S. Bureau of Land Management and other state and federal agencies and organizations.
Fisheries and Wildlife Major Requirements
HABITAT MANAGEMENT OPTION
2017-2018 Required Courses
UNL College of Agricultural Sciences and Natural Resources

Bolded **credit hours** indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

### Required Courses

<table>
<thead>
<tr>
<th>Field/Lab</th>
<th>4 credit hours</th>
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<tr>
<td>NRES 438 Grassland Conservation: Planning &amp; Management</td>
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<table>
<thead>
<tr>
<th>Zoology</th>
<th>4 credit hours</th>
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<tbody>
<tr>
<td>BIOS 381 Invertebrate Zoology</td>
<td>4</td>
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<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
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<table>
<thead>
<tr>
<th>Career Experience</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NRES 399 Independent Research</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 497 Career Experiences in Natural Resource Sciences</td>
<td>1-6</td>
</tr>
<tr>
<td>NRES 499 Thesis Research</td>
<td>3-6</td>
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<tr>
<td>NRES 499H Honors Thesis</td>
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<thead>
<tr>
<th>Animal Course</th>
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<tbody>
<tr>
<td>BIOS 475 Ornithology</td>
<td>3</td>
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<tr>
<td>BIOS 487 Field Parasitology</td>
<td>4</td>
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<tr>
<td>ENTO 402 &amp; ENTO 402L Aquatic Insects (BIOS 485/NRES 402) &amp; Lab (BIOS 485L/NRES 402L)</td>
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<tr>
<td>ENTO 411 Field Entomology (BIOS 482)</td>
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<tr>
<td>NRES 474 Herpetology (BIOS 474)</td>
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<tr>
<td>NRES 476 Mammalogy (BIOS 476)</td>
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<td>NRES 489 Ichthyology (BIOS 489)</td>
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<table>
<thead>
<tr>
<th>Plant Identification Course</th>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>HORT 212 Landscape Plants I (LARC 212/NRES 212)</td>
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</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
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<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
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<table>
<thead>
<tr>
<th>Geographic Information Science (GIS)</th>
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<tbody>
<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NRES 412 Introduction to Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>NRES 418 Introduction to Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS)</td>
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<table>
<thead>
<tr>
<th>Grassland Systems</th>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>NRES 245 Introduction to Grassland Ecology &amp; Management (AGRO 245)</td>
<td>3</td>
</tr>
<tr>
<td>RNGE 440 Great Plains Ecosystem (AGRO 440/NRES 440)</td>
<td>3</td>
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<tr>
<td>RNGE 444 Ecosystem Monitoring &amp; Assessment (AGRO 444/NRES 444)</td>
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<table>
<thead>
<tr>
<th>Forest Systems</th>
<th>3-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 310 Introduction to Forest Management</td>
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</tr>
<tr>
<td>NRES 417 Agroforestry Systems in Sustainable Agriculture (HORT 418)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology</td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>Aquatic Systems</th>
<th>3-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 459 Limnology (BIOS 459/WATS 459)</td>
<td>4</td>
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<tr>
<td>NRES 463 &amp; NRES 463L Fisheries Science &amp; Lab</td>
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<table>
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<tr>
<th>Soil Science</th>
<th>3-4 credit hours</th>
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<tbody>
<tr>
<td>MSYM 354 Soil Conservation &amp; Watershed Management (SOIL 354/WATS 354)</td>
<td>3</td>
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<tr>
<td>AGRO 269 Principles of Soil Management (SOIL 269)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 477 Great Plains Field Pedology (NRES 477/SOIL 477)</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Production Systems</th>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>AGRO 204 Resource-Efficient Crop Management</td>
<td>3</td>
</tr>
<tr>
<td>RNGE 240 Forage Crop &amp; Pasture Management (AGRO 240)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 435 Agroecology (HORT 435/NRES 435)</td>
<td>3</td>
</tr>
<tr>
<td>RNGE 340 Range Management &amp; Improvement (AGRO 340)</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Wildlife Focus</th>
<th>3-4 credit hours</th>
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</thead>
<tbody>
<tr>
<td>NRES 431 Waterfowl Ecology &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 348 Wildlife Damage Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Optional Electives</th>
<th>15 credit hours</th>
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<tr>
<td>AECN 265 Resource &amp; Environmental Economics I (NREE 265)</td>
<td>3</td>
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<tr>
<td>ENTO 115 Insect Biology (BIOS 115) &amp; ENTO 116 Insect Identification (BIOS 116)</td>
<td>5</td>
</tr>
<tr>
<td>NRES 270 Biological Invaders (AGRO 270/HORT 270/PLPT 270)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 348 Wildlife Damage Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 434 Environmental Education &amp; Interpretation (ENVR 434)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 492 International Study Tours in Natural Resource Management</td>
<td>1-3</td>
</tr>
<tr>
<td>NRES 495 Grasslands Seminar (AGRO 495/ENTO 495/GRAS 495/HORT 495/RNGE 495/SOIL 495)</td>
<td>1-2</td>
</tr>
<tr>
<td>PHIL 225 Environmental Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>
Combine your interests in criminal justice and wildlife ecology working with the public to protect wildlife resources by enforcing hunting and fishing regulations through our law enforcement option.

Make an appointment to learn more about options in our fisheries and wildlife major.

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e-mail: elyse.watson@unl.edu

Career Path
Wildlife Law Enforcement Officer, Park Ranger, Conservation Officer, Game Warden

Special Emphasis Courses

Internships Available
Our students have enjoyed internships with the U.S. Fish and Wildlife Service, the Nebraska Game and Parks Commission and other state and federal agencies.
### Fisheries and Wildlife Major Requirements
#### LAW ENFORCEMENT OPTION

**2017-2018 Required Courses**

UNL College of Agricultural Sciences and Natural Resources

**Bolded credit hours** indicate the number of credits needed for that subject area. The classes listed below are the available options for that subject area and how many credit hours each class is worth.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>3-4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field/Lab (ACE 10)</strong></td>
<td></td>
</tr>
<tr>
<td>NRES 433 Wildlife Management Techniques &amp; NRES 233 Wildlife Field Techniques</td>
<td>4</td>
</tr>
<tr>
<td>NRES 463 &amp; NRES 463L Fisheries Science &amp; Lab</td>
<td>4</td>
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<tr>
<td>CRIM 496 Issues in Crime &amp; Justice</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Zoology</th>
<th>4 credit hours</th>
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<tbody>
<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
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<table>
<thead>
<tr>
<th>Career Experience</th>
<th>1-3 credit hours</th>
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<tbody>
<tr>
<td>NRES 399 Independent Research</td>
<td>1-5</td>
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<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>NRES 497 Career Experiences in Natural Resource Sciences</td>
<td>1-6</td>
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<tr>
<td>NRES 499 Thesis Research</td>
<td>3-6</td>
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<tr>
<td>NRES 499H Honors Thesis</td>
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</table>

<table>
<thead>
<tr>
<th>Animal Course</th>
<th>3-4 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 475 Ornithology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 474 Herpetology (BIOS 474)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 476 Mammalogy (BIOS 476)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>Plant Course</th>
<th>3-4 credit hours</th>
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</thead>
<tbody>
<tr>
<td>NRES 245 Introduction to Grassland Ecology &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 442 Wildland Plants (NRES 442/RNGE 442)</td>
<td>3</td>
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<tr>
<td>HORT 212 Landscape Plants I (LARC 212/NRES 212)</td>
<td>3</td>
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<tr>
<td>HORT 214 Herbaceous Landscape Plants (NRES 214)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 310 Introduction to Forest Management</td>
<td>4</td>
</tr>
<tr>
<td>NRES 417 Agroforestry Systems in Sustainable Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 426 Invasive Plants (AGRO 426/HORT 426)</td>
<td>3</td>
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<tr>
<td>NRES 435 Agroecology (AGRO 435/HORT 435)</td>
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<table>
<thead>
<tr>
<th>Geographic Information Science (GIS) Course</th>
<th>2-4 credit hours</th>
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<tbody>
<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)</td>
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<tr>
<td>NRES 412 Introduction to Geographic Information Systems (GEOG 412)</td>
<td>4</td>
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<tr>
<td>NRES 418 Introduction to Remote Sensing (GEOG 418)</td>
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<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS) (GEOG 427)</td>
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<table>
<thead>
<tr>
<th>Required Courses</th>
<th>3 credit hours</th>
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<tbody>
<tr>
<td>Human Dimensions</td>
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<tr>
<td>NRES 348 Wildlife Damage Management</td>
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<table>
<thead>
<tr>
<th>Law</th>
<th>17 credit hours</th>
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<tbody>
<tr>
<td>FORS 120 Introduction to Forensic Science</td>
<td>2</td>
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<tr>
<td>CRIM 101 Survey of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 203 Police &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>CRIM 211 The Criminal Court System</td>
<td>3</td>
</tr>
<tr>
<td>Select two of any 300- or 400-level CRIM courses</td>
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<table>
<thead>
<tr>
<th>Optional Electives</th>
<th>12 credit hours</th>
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<tbody>
<tr>
<td>Forensic Science</td>
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<tr>
<td>ENTO 414 Forensic Entomology (FORS 414)</td>
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</tr>
<tr>
<td>FORS 400 &amp; FORS 400L Crime Scene Investigation &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>FORS 401 &amp; FORS 401L Forensic Biochemistry &amp; Lab</td>
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<table>
<thead>
<tr>
<th>Natural Resources</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>NRES 211 Introduction to Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 270 Biological Invaders (AGRO 270/HORT 270/PLPT 270)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 423 Integrated Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
<td>3</td>
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<tr>
<td>NRES 431 Waterfowl Ecology &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 433 Wildlife Management Techniques</td>
<td>3</td>
</tr>
<tr>
<td>NRES 434 Environmental Education &amp; Interpretation (ENVR 434)</td>
<td>3</td>
</tr>
<tr>
<td>NRES 445 Human Remains in Forensic Science (FORS 445)</td>
<td>4</td>
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<tr>
<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
<td>4</td>
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<tr>
<td>NRES 459 Limnology (BIOS 459/WATS 459)</td>
<td>4</td>
</tr>
<tr>
<td>NRES 492 Study Tours in Natural Resource Management</td>
<td>1-3</td>
</tr>
<tr>
<td>NRES 495 Grasslands Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>NRES 496 Independent Study</td>
<td>1-5</td>
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<table>
<thead>
<tr>
<th>Philosophy and Sociology</th>
<th></th>
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<tbody>
<tr>
<td>PHIL 225 Environmental Ethics</td>
<td>3</td>
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<tr>
<td>SOCI 209 Sociology of Crime</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 241 Rural Sociology (AECN 276)</td>
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<tr>
<td>SOCI 261 Conflict &amp; Conflict Resolution (ANTH 261/POLS 261/PSYC 261)</td>
<td>3</td>
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<tr>
<td>SOCI 346 Environmental Sociology</td>
<td>3</td>
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<tr>
<td>NRES 487 Introduction to Landscape Ecology (LARC 487)</td>
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<tr>
<td>NRES 489 Ichthyology (BIOS 489)</td>
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<td>NRES 492 Study Tours in Natural Resource Management</td>
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</tbody>
</table>
Interested in self-employment as a land or resource manager, ecotourism operator, hunting guide, or nature-based artist? Become your own boss through our nature-based entrepreneurship option.

Make an appointment to learn more about options in our fisheries and wildlife major.

Contact Information

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Elyse Watson
Recruitment Coordinator
102A Hardin Hall
School of Natural Resources
University of Nebraska
Lincoln, NE 68583-0981
Phone: 402-472-7472
e-mail: elyse.watson@unl.edu

Career Path

Private Lands Habitat Consultant, Ecotourism, Outfitter or Guide, Gamebird Farmer, Private Hatchery Manager, Conservation Photographer, Taxidermist

Special Emphasis Courses


Internships Available

Our students have enjoyed internships with Double Barrel Game Farms, Nebraska Grassland Coalition, Nebraska Educational Television, Nebraska Game and Parks Commission, and many more!
Fisheries and Wildlife Major Requirements  
**NATURE-BASED ENTREPRENEURSHIP OPTION**  
2017-2018 Required Courses  
UNL College of Agricultural Sciences and Natural Resources

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<th>Field/Lab</th>
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<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
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<thead>
<tr>
<th>Zoology</th>
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<tr>
<td>BIOS 381 Invertebrate Zoology</td>
<td>4</td>
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<tr>
<td>NRES 386 Vertebrate Zoology (BIOS 386)</td>
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<td>AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)</td>
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<table>
<thead>
<tr>
<th>Entrepreneurship Course</th>
<th>6 credit hours</th>
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</thead>
<tbody>
<tr>
<td>AECN 471 &amp; AECN 472 Agricultural Marketing &amp; Product Development I &amp; II</td>
<td>3</td>
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<tr>
<td>NRES 492 International Study Tours in Natural Resource Sciences</td>
<td>3</td>
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<tr>
<td>AGRI 310 Study Tours in International Agriculture</td>
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<tr>
<td>EAEP 388 Agribusiness Entrepreneurship (ABUS 388/AGRO 388/ENTR 388)</td>
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<tr>
<td>ENTR 321 Entrepreneurship &amp; Innovation in Organizations (MNGT 321)</td>
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<tr>
<td>ENTR 322 Family Business (MNGT 322)</td>
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<tr>
<td>ENTR 421 Initiating &amp; Managing Entrepreneurial Growth (MNGT 421)</td>
<td>3</td>
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<tr>
<td>ENTR 422 Managing Rapid Growth &amp; Change in Organizations (MNGT 422)</td>
<td>3</td>
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<tr>
<td>ENTR 423 Business Plan Development &amp; Decision Making (MNGT 423)</td>
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### Entrepreneurial (ACE 10) | 6 credit hours |

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>6 credit hours</th>
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<tbody>
<tr>
<td>EAEP 488 Business Management for Agricultural Enterprises (ABUS 488/AGRO 488/ENTR 488/HORT 488) (capstone experience)</td>
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<tr>
<td>EAEP 395 Agribusiness Entrepreneurship Internship</td>
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### Career Focus Courses | 9 credit hours

Work with your advisor to select 9 credits that will enhance professional competencies and complement career goals in land or resource management, ecotourism/guiding, or nature-based art. See below for examples.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>9 credit hours</th>
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<tbody>
<tr>
<td>AGRO 440 Great Plains Ecosystem (NRES 440/RNGE 440)</td>
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<tr>
<td>ALEC 393 Digital Imaging &amp; Storytelling in Ag &amp; Natural Resources (NRES 393)</td>
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</tr>
<tr>
<td>HRTM 280 Introduction to Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 360 Hospitality &amp; Tourism Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HRTM 374 Guest Services Management</td>
<td>3</td>
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<tr>
<td>HRTM 478 Tourism Resources &amp; Development</td>
<td>3</td>
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<tr>
<td>NRES 310 Introduction to Forest Management</td>
<td>4</td>
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<tr>
<td>AECN 256 Legal Aspects in Agriculture</td>
<td>3</td>
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<tr>
<td>AECN 357 Natural Resource &amp; Environmental Law (NREE 357)</td>
<td>3</td>
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<tr>
<td>NREE 456 Environmental Law (AECN 456)</td>
<td>3</td>
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<tr>
<td>NREE 457 Water Law (AECN 457/WATS 457)</td>
<td>3</td>
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<tr>
<td>JGEN 184 Basic Photography</td>
<td>3</td>
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<tr>
<td>PHOT 161 Photography for Non-Majors</td>
<td>3</td>
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<tr>
<td>HORT 200 Landscape &amp; Environmental Appreciation (GEOG 200/LARC 200)</td>
<td>3</td>
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<tr>
<td>TMFD 121 Visual Communication &amp; Presentation</td>
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<tr>
<td>RNGE 240 Forage Crop &amp; Pasture Management</td>
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### Optional Electives | 15 credit hours

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>AECN 265 Resource &amp; Environmental Economics I (NREE 265)</td>
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<tr>
<td>NRES 211 Introduction to Conservation Biology</td>
<td>3</td>
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<tr>
<td>NRES 270 Biological Invaders (AGRO 370/HORT 270/PLPT 270)</td>
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<tr>
<td>NRES 312 Introduction to Geospatial Information Sciences (GEOG 312)</td>
<td>3</td>
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<td>NRES 348 Wildlife Damage Management</td>
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<td>NRES 388 Employment Seminar (AGRI 388)</td>
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<tr>
<td>NRES 412 Introduction to Geographic Information Systems (GEOG 412)</td>
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<td>NRES 418 Introduction to Remote Sensing (GEOG 418)</td>
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<tr>
<td>NRES 427 Introduction to the Global Positioning System (GPS) (GEOG 427)</td>
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<td>NRES 428 Leadership in Public Organizations (ALEC 428)</td>
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<tr>
<td>NRES 450 Biology of Wildlife Populations (BIOS 450)</td>
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