**Department:** Natural Resources Science, 401-874-2026, [http://www.nrs.uri.edu](http://www.nrs.uri.edu)

**Credits:** 120

**The Major:** Students enrolled in the Wildlife & Conservation Biology major study a combination of the natural sciences and principles of managing wildlife populations and their habitats. This major is one of very few in the United States that fulfills the educational requirements for certification as an Associate Wildlife Biologist by The Wildlife Society, the international organization for professionals in the wildlife field. It also provides an excellent foundation for graduate school. The URI Student Chapter of The Wildlife Society is heavily involved with career-related activities.

**Careers:** Graduates of this major find employment with various state or federal agencies (such as the U.S. Fish and Wildlife Service, Park Service, or Forest Service, or Rhode Island Department of Environmental Management); with consulting firms; and with organizations like the Audubon Society and the National Wildlife Federation. Wildlife researchers work on habitat requirements of individual wildlife species and analyze the effects of such factors as pesticides, hunting, predation and land use on wildlife populations and their habitats. Wildlife managers operate refuges, regulate hunting and trapping seasons, manage public lands for the benefit of wildlife, and advise private landowners regarding wildlife management. Some wildlife biologists work for consulting firms that assess the environmental impact of proposed developments; others work in regulating land use in wetlands and coastal zones; still others teach in colleges, environmental education centers, and public schools.

**Transfer out of UC:** Must have completed at least 24 credits, minimum GPA of 2.00, and received permission from the UC Major Advisor.
WILDLIFE & CONSERVATION BIOLOGY, 120 CREDITS

College of the Environment & Life Sciences (CELS)
Department of Natural Resources Science

Students starting: FALL 2010

4-7-2011

STUDENT__________________________ STUDENT ID _____________ ADVISOR__________________________

General Education (36 credits)
EC[D]: COM 100____ (3) or COM 110____ (4)
ECw: WRT 104, 105 or 106____ (3)
MQ: (3 cr. from Basic Sciences below)
N: (6 cr. from Basic Sciences below)
S: (6 cr. from NRS 100* and EEC 105 below)
L: ______(3) ______(3)
A: ______(3) ______(3)
FC: ______(3) ______(3)
(Note: 15 cr. from L, A and FC)

Intro. to URI and NRS (2 credits)
URI 101____ (1) NRS 101____ (1)

Intro. Professional Courses (17 credits)
NRS 100____ (3) NRS 212____ (3)
NRS 200____ (1) EEC 105____ (3)
NRS 223____ (3) GEO 103____ (4)

Basic Sciences (25 credits; 9 applicable to General Education requirements)*
BIO 101____ (4)
BIO 102____ (4)
BIO 262____ (3)
CHM 103, 105____ (4)
CHM 124, 126____ (4)
MTH 131____ (3)
STA 308____ (3) or STA 409____ (3)

*Six credits apply to Division N and three credits apply to Division MQ above.

Concentration (22-23 credits; must include at least 12 credits from NRS).
NRS 305____ (3) NRS 309____ (3)
NRS 406____ (3) or NRS 407____ (3)
BIO 323____ (4)

Other Concentration Courses (9-10 credits from an approved list available from NRS Dept):
______( ) ________( ) ________( )
______( ) ________( ) ________( )

Note: If you are seeking certification by The Wildlife Society, you must complete the 9-10 credits of other Concentration courses in the following two categories:
Vertebrate Biology (6 credits):
NRS 304____ (3) and/or NRS 324____ (3)
BIO 366____ (3) BIO 467____ (3)
Must take either NRS 304 or NRS 324 if seeking certification.

Biometrics or other Quantitative Sciences:
NRS 402, 403____ (4) or computer science (200-level or above), calculus (beyond MTH 131), systems analysis, mathematical modeling, or advanced algebra.

Supporting Electives (26-27 credits; at least 6 credits must be NRS courses). Courses may be selected from the Concentration categories or from an approved list (see back). Up to 12 credits of Letter Grade or S/U Experiential Learning Courses may be taken as Supporting Electives. Senior Colloquium (NRS 480, 2 cr.) is strongly recommended.

Note: if you are seeking certification by The Wildlife Society, Categories below must be completed (see back).
Botany (3):
______( )

Zoology (6):
______( ) ________( )

Policy (6):
______( ) ________( )

Communications (6):
______( ) ________( )

Other Supporting Electives (5-6 credits):
______( ) ________( )

Free Electives (6 credits)
______( ) ________( ) ________( )

Note: Concentration and Supporting Electives must total at least 49 credits. Credits for graduation must total at least 120.

*pending approval from CAC
<table>
<thead>
<tr>
<th>Wildlife and Conservation Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman, Fall (15)</strong></td>
</tr>
<tr>
<td>NRS 100: Natural Resource Conservation</td>
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<tr>
<td>NRS 101: Freshman Inquiry into NRS</td>
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<tr>
<td>URI 101: Traditions and Transformations: Freshman Seminar</td>
</tr>
<tr>
<td>BIO 101: Principles of Biology I</td>
</tr>
<tr>
<td>COM 100: Communication Fundamentals</td>
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<tr>
<td>MTH 111/131: Precalculus/ Applied Calculus</td>
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<tr>
<td><strong>Sophomore, Fall (15)</strong></td>
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<tr>
<td>NRS 200: Seminar in Natural Resources</td>
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<tr>
<td>BIO 262: Introductory Ecology</td>
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<tr>
<td>GEO 103: Understanding the Earth</td>
</tr>
<tr>
<td>NRS 212: Introduction to Soil Science</td>
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<tr>
<td>GEN ED (A, L, or FC)</td>
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<tr>
<td><strong>Junior, Fall (15)</strong></td>
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<tr>
<td>BIO 323: Field Botany and Taxonomy</td>
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<td>GEN ED (A, L, or FC)</td>
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<tr>
<td>Free elective</td>
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<tr>
<td>NRS Supporting Elective</td>
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<tr>
<td>NRS Supporting Elective</td>
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<tr>
<td><strong>Senior, Fall (15)</strong></td>
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<tr>
<td>NRS 304 or BIO 366: Field Ornithology or Vertebrate Biology</td>
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<tr>
<td>NRS Supporting Elective</td>
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<tr>
<td>NRS Supporting Elective</td>
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<tr>
<td>Free Elective</td>
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</tbody>
</table>
WILDLIFE & CONSERVATION BIOLOGY

APPROVED SUPPORTING ELECTIVE COURSES

A total of 26-27 credits may be taken from the following categories. **At least 6 credits must be NRS courses.** The requirements in various categories are based on certification guidelines established by The Wildlife Society. These approved courses may change with availability. Other courses may be taken with approval of your advisor.

**Botany (3 credits)**
- NRS 301 Forest Science 3
- NRS 423 Wetland Ecology 4
- NRS 445 Invasive Species 3
- BIO 311 Plant Structure & Development 4
- BIO 321 Plant Diversity 3
- BIO 346 Plant Physiology 3
- BIO 352 Genetics 3
- BIO 418 Ecology of Marine Plants 4
- BIO 432 Mycology: Intro. to the Fungi 4
- BIO 454 Genetics Laboratory 3
- BIO 465 Biology of Algae 4
- BIO 524 Methods in Plant Ecology 3

**Zoology (6 credits)**
- AFS 352 General Genetics (= PLS 352) 3
- AFS 355 Genetics Lab (= PLS 355) 2
- NRS 532 Conservation Biology 3
- NRS 534 Ecol. Fragmented Landscapes 2
- NRS 538 Physiological Ecology 3
- BIO 201 General Animal Physiology 3
- BIO 203 Intro. Evolutionary Genetics 3
- BIO 205 Animal Diversity 3
- BIO 206 Pop. and Community Dynamics 3
- BIO 286 Humans, Insects, and Disease 3
- BIO 302 Animal Development 3
- BIO 304 Comparative Vertebrate Anatomy 4
- BIO 331 Parasitology 3
- BIO 345 Marine Env. Physiology 3
- BIO 350 Evolution 4
- BIO 355 Marine Invert. of Southern N.E. 3
- BIO 366 Vertebrate Biology 3
- BIO 385 Introductory Entomology 3
- BIO 386 Introductory Entomology Lab 1
- BIO 437 Fundamentals of Molecular Biol. 3
- BIO 441 Envir. Physiology of Animals 3
- BIO 455 Marine Ecology 3
- BIO 457 Marine Ecology Lab 1
- BIO 458 Freshwater Ecology 4
- BIO 467 Animal Behavior 3

**Resource Policy, Administration, Environmental Law, Law Enforcement or Land Use Planning (3 credits)**
- CPL 434 Intro. to Environmental Law 3
- MAF 100 Human Use Marine Environment 3
- MAF 120 New England & The Sea 3
- MAF 220 Intro. Marine & Coastal Law 3
- MAF 312 Politics of the Ocean 3
- MAF 471 Island Ecosystem Management 3
- MAF 484 Env. Anal. & Policy Coastal Mgt. 3
- NRS 361 Watershed hydrology and Mgt. 4
- NRS 401 Foundations in Restoration Ecology 3
- NRS 411 Population & Environmental Change 3
- NRS 414 Climate Change Science & Policy 3
- NRS 424 Wetlands & Land Use 4
- NRS 450 Soil Conservation & Land Use 3

**Communications (6 credits- in addition to General Education requirements)**
- JOR 110 Introduction to Mass Media 3
- JOR 220 Media Writing 3
- JOR 230 Intro. Radio & TV News 3
- JOR 340 Public Relations 3
- COM 202 Public Speaking 3
- COM 210 Persuasion: The Rhetoric of Influ. 3
- COM 251 Small Group Communication 3
- COM 302 Advanced Public Speaking 3
- COM 310 Contemp. Oral Communication 3
- WRT 201 Argument. & Persuasive Texts 3
- WRT 235 Writing in Electronic Env. 3
- WRT 333 Scientific & Technical Writing 3
- WRT 533 Grad. Writing in Life Sciences 3

**Other Supporting Electives:**
Courses may be selected from any of the above categories, from Concentration electives, or from other 300- or 400-level NRS courses
# Experiential Learning Courses

Up to 12 credits of Experiential Learning Courses may be taken. A maximum of 10 credits of Letter Grade courses may be taken for Concentration credit; up to 12 credits of Letter Grade courses (in italicics below) or S/U courses may be used as Supporting Electives.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 395</td>
<td>Research Apprenticeship</td>
<td>(1-3 credits/ea.)</td>
</tr>
<tr>
<td>NRS 397</td>
<td>Internship</td>
<td>(1-6 credits)</td>
</tr>
<tr>
<td>NRS 491/492</td>
<td><em>Special Projects</em></td>
<td>(1-3 credits/ea.)</td>
</tr>
<tr>
<td>NRS 495</td>
<td>Advanced Apprenticeship</td>
<td>(3 or 6 credits)</td>
</tr>
<tr>
<td>NRS 497</td>
<td><em>Cooperative Internship</em></td>
<td>(6-12 credits)</td>
</tr>
<tr>
<td>NRS 498</td>
<td>Teaching Practicum</td>
<td>(1-3 credits)</td>
</tr>
<tr>
<td>NRS 499</td>
<td>Senior Thesis</td>
<td>(6 credits)</td>
</tr>
</tbody>
</table>

*italicized course titles indicate Letter Grade courses*