

**Wildlife Option**  
**Coursework Requirements - 2007-2009 Catalog**  
**39 Total Credits**

**Required Courses**

A ECL 371  
 A ECL 451  
 BIOL 313 or GEN 320  
 BIOL 366  
 MATH 160, 165, or 181

**17 credits**

Ecological Methods and Analyses 3 cr  
 Wildlife Management 3 cr  
 Principles of Genetics 3 cr  
 Plant Systematics 4 cr  
 Calculus Elective 4 cr

**Restricted Electives**

**Zoology**

A ECL 457  
 A ECL 515  
 A ECL XXX  
 ANTHR 438  
 BIOL 315  
 BIOL 336X  
 BIOL 354/354L  
 BIOL 471X  
 EEOB 507  
 ENT 370  
 NREM 475X

**Wildlife Biology**

A ECL 458  
 A ECL 459

**Policy, Administration and Law**

A ECL 455  
 C R P 491  
 ENV S 293  
 ENV S 482  
 FOR 453  
 NREM 385/585  
 NREM 450X  
 NREM 460  
 NREM 532

**Botany**

AGRON 317  
 BIOL 355  
 BIOL 356  
 BIOL 454  
 BIOL 456  
 BIOL 474  
 EEOB 564

**Additional Restricted Electives:**

A ECL/ENT 425  
 AGRON 154  
 AGRON 260  
 AGRON 334  
 BIOL 381  
 BIOL 472  
 ECON 380  
 ENSCI 408  
 FOR 302  
 FOR 454  
 NREM 301  
 NREM 345  
 NREM 390  
 NREM 407/ENV S 407  
 NREM 446  
 NREM 465  
 NREM 471  
 TSM 324  
 TSM 424

**A minimum of 22 credits**

**Select 6 credits from list below:**

Herpetology 3 cr  
 Ecology of Freshwater Invertebrates 3 cr  
 Wildlife Diseases (planned for Spring 2008) 3 cr  
 Primate Evolutionary Ecology and Behavior 3 cr  
 Biological Evolution 3 cr  
 Ecological and Evolutionary Animal Physiology 3 cr  
 Animal Behavior/Lab in Animal Behavior 3-4 cr  
 Introductory Conservation Biology 3 cr  
 Advanced Animal Behavior 3 cr  
 Insect Biology 3 cr  
 Conservation Genetics 3 cr

**Select 3 credits from list below:**

Ornithology 3 cr  
 Mammalogy 3 cr

**Select 6 credits from list below:**

International Wildlife Issues 3 cr  
 Environmental Law & Planning 3 cr  
 Environmental Planning 3 cr  
 Environmental Politics & Policies 3 cr  
 Forest Resource Policy and Administration 3 cr  
 Natural Resource Policy 3 cr  
 History of Wildlife Conservation 3 cr  
 Controversies in Renewable Resource Management 3 cr  
 Human Dimensions of Natural Resource Management 3 cr

**Select 5 credits from list below:**

Principles of Weed Science 3 cr  
 Plants and People 3 cr  
 Dendrology 4 cr  
 Plant Anatomy 4 cr  
 Principles of Mycology 3 cr  
 Plant Ecology 3 cr  
 Wetland Ecology 3 cr

**If needed, select additional credits from list below:**

Aquatic Insects 3 cr  
 Fundamentals of Soil Science 3 cr  
 Soils and Environmental Quality 3 cr  
 Forage Crop Management 3 cr  
 Environmental Systems 4 cr  
 Community Ecology 3 cr  
 Environmental and Resource Economics 3 cr  
 GIS & Natural Resources Management 3 cr  
 Silviculture 3 cr  
 Forest Practicum 3 cr  
 Forest Ecology & Soils 4 cr  
 Nat. Res. Photogrammetry & GIS 3 cr  
 Fire Ecology & Management 3 cr  
 Watershed Management 4 cr  
 Integrating GPS & GIS for Nat. Res. Management 3 cr  
 Landscape Change & Conservation 3 cr  
 Agroforestry Systems 3 cr  
 Soil & Water Conservation Management 3 cr  
 Impacts of Agriculture on Water Quality 2 cr

## Suggested Sequence of Courses

### Wildlife Option\*

#### Freshman Year

|   |                        |           |           |                          |             |
|---|------------------------|-----------|-----------|--------------------------|-------------|
| BIOL 211                                  | Principles of Biology  | 3         | BIOL 212  | Principles of Biology    | 3           |
| BIOL 211L                                 | Prin. of Biology Lab.  | 1         | BIOL 212L | Prin. of Biology Lab.    | 1           |
| NREM 110                                  | Orientation in NREM    | R         | NREM 120  | Intro. Renew. Resources  | 3           |
| Ethics/Humanities/Social Science Elective |                        | 3         | ENGL 150  | Critical Thinking & Comm | 3           |
| MATH 140                                  | College Algebra**      | 3         | MATH 142  | Trig. & Analytic Geom.** | 3           |
| CHEM 163                                  | General Chemistry      | 4         | CHEM 164  | General Chemistry        | 3           |
| CHEM 163L                                 | General Chemistry Lab. | <u>1</u>  | LIB 160   | Library Instruction      | <u>.5</u>   |
|   |                        | <u>15</u> |           |                          | <u>16.5</u> |

#### Sophomore Year

|           |                        |           |   |                          |              |
|-----------|------------------------|-----------|---|--------------------------|--------------|
| A ECL 365 | Vertebrate Biology     | 4         | CHEM 231                                  | Elem. Organic Chem.      | 3            |
| NREM 211  | Careers in Nat. Res    | 1         | CHEM 231L                                 | Lab. Organic Chem.       | 1            |
| A ECL 312 | Ecology                | 4         | Stat 101/104                              | Statistics               | 3-4          |
| MATH      | Calculus Elective      | 4         | Sp Cm 212                                 | Fund. of Public Speaking | 3            |
| ENGL 250  | W/O/V/E Communications | <u>3</u>  | Free Elective                             |                          | 3            |
|           |                        | <u>16</u> | Ethics/Humanities/Social Science Elective |                          | <u>3</u>     |
|           |                        |           |   |                          | <u>16-17</u> |

#### Junior Year\*\*\*

|   |                       |           |   |                   |           |
|---|-----------------------|-----------|---|-------------------|-----------|
| PHYS 106                                  | Physics Common Exper. | 4         | BIOL 313/GEN 320                          |                   | 3         |
| A ECL 371                                 | Ecological Methods    | 3         | Communications Elective                   |                   | 3         |
| Restricted Electives                      |                       | 6         | Restricted Elective                       |                   | 3         |
| Ethics/Humanities/Social Science Elective |                       | <u>3</u>  | Ethics/Humanities/Social Science Elective |                   | 3         |
|   |                       | <u>16</u> | BIOL 366                                  | Plant Systematics | <u>4</u>  |
|   |                       |           |   |                   | <u>16</u> |

#### Senior Year\*\*\*

|   |                     |           |                         |  |           |
|---|---------------------|-----------|-------------------------|--|-----------|
| A ECL 451                                 | Wildlife Management | 3         | Restricted Electives    |  | 9         |
| Restricted Elective                       |                     | 6         | Communications Elective |  | 3         |
| Ethics/Humanities/Social Science Elective |                     | 3         | Free Electives          |  | <u>3</u>  |
| Free Elective(s)                          |                     | <u>6</u>  |                         |  | <u>15</u> |
|   |                     | <u>18</u> |                         |  |           |

\* To complete degree program in four years students must maintain an average of 16 credits per semester.

\*\* Initial math course is determined on the basis of high school math and placement test scores. A non-credit math course (Math 10) may be required at additional costs.

\*\*\* In scheduling coursework, students should pay particular attention to courses with limited offerings (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course). It is critical that students take A ECL 371 fall semester of the junior year and A ECL 451 fall semester of the senior year.