

## Degree Requirements for Conservation Ecology Majors (2011-2012)

The following contains information on the courses required to fulfill a degree in Conservation Ecology at New Mexico State University. **A minimum of 128 credits must be taken, 48 at the 300 level or above.** Below you will find a listing of courses that must be taken to fulfill the major requirements as well as College of Arts and Sciences requirements. You must earn a **C or better** in all courses required for the Major.

### CONSERVATION ECOLOGY MAJOR REQUIREMENTS

#### Required courses (43-45 cr.):

- BIOL 111G Natural History of Life
- BIOL 111L Natural History of Life Laboratory
- BIOL 211G Cellular & Organismal Biology.
- BIOL 211L Cellular & Organismal Biology Lab
- BIOL 301 Principles of Ecology
- BIOL 305 Principles of Genetics
- BIOL 467 Evolution
- BIOL 312 Plant Taxonomy  
or { *RGSC 307 Rangeland Grasses* **and**  
    *RGSC 316 Rangeland Plants*
- BIOL 313 Structure and Function of Plants
- BIOL 322 Zoology
- FWCE 255 Principles of Fish & Wildlife Management
- FWCE 310 Managing Ecological Systems for Biodiversity  
or *BIOL 462 Conservation Biology*
- FWCE 330 Natural History of the Vertebrates
- FWCE 402 Seminar in Natural Resource Management
- FWCE 409 Introduction to Population Ecology  
or *BIOL 408 Ecology of Plants*

#### Diversity of Life (choose 2; 6-8cr.):

- FWCE 430 Avian Field Ecology  
or *BIOL 447 Ornithology*
- FWCE 431 Forest & Range Mammals
- FWCE 482 Ichthyology
- BIOL 465 Invertebrate Zoology

#### Any Physiology (3-4cr.)

- { FWCE 432  
    BIOL 311, 314, 377, 381, 474  
    ANSC 370

#### Other major requirements (required non-WLSC or BIOL classes)

(Note: all of these courses are required)

- CHEM 111 General Chemistry I
- CHEM 112 General Chemistry II
- CHEM 211 Organic Chemistry
- BCHE 341 Survey of Biochemistry
- C S xxx Any CS 100 or above  
or *AG E 250 Life With Microcomputers*

Total credits needed to reach 128:

Upper Division credits needed to reach 48:

- MATH 120 Intermediate Algebra      **or**     MATH 191 Calculus & Analyt. Geometry I
- MATH 142 Calc for Bio & Mngmt Sci     MATH 192 Calculus & Analyt. Geometry II
- A ST 311G Statistical Applications
- PHYS 211 General Physics I            **or**     PHYS 221 General Physics for Life Sciences I
- PHYS 211L Gen Phys Lab I             PHYS 211L Gen Phys Lab I
- PHYS 212 General Physics II         **or**     PHYS 222 General Physics for Life Sciences II
- PHYS 212 L General Physics Lab II     PHYS 212 L General Physics Lab II

## NEW MEXICO COMMON CORE REQUIREMENTS

### **Area 1 – Communication (9-10 cr.)**

ENGL 111G, 111H, or SPCD 111G  
ENGL **311G or 318G**  
COMM 253G or 265G, HON 265G

### **Area 2 – Mathematics (3cr.)**

Satisfied by taking departmental requirements

### **Area 3- Laboratory Sciences (8cr.)**

Satisfied by taking departmental requirements

*A total of 15 credits (5 classes) must come from  
Areas 4 & 5.*

*2 classes from Area 4*

*2 classes from Area 5*

*1 class from either Area 4 or 5*

### **Area 4 – Social/Behavioral Sciences (6-9cr.)**

AG E/FSTE 210G  
ANTH 120G, 125G, 201G, 202G, 203G  
C EP 110G  
C J 101G  
ECON 201G, 251G, 252G  
GEOG 112G, 120G  
GOVT 100G, 110G, 150G, 160G  
H LS 150  
HON 203G, 232G, 235G, 237G, 248G, 249G  
JOUR 105G  
LING 200G  
PSY 201G  
SOC 101G, 201G  
S WK 221G  
W S 201G, 202G

### **Area 5 – Humanities and Fine Arts (6-9cr.)**

ART 101G, 110G, 295G, 296G  
DANC 101G  
ENGL 115G, 116G, 220G, 244G  
HIST 101G, 102G, 110G, 111G, 112G, 201G, 202G,  
211G, 212G, 221G, 222G  
HON 208G, 216G, 220G, 221G, 222G, 225G, 226G,  
227G, 228G, 229G, 230G, 234G, 239G, 241G, 242G,  
244G, 270G  
MUS 101G, 201G  
PHIL 100G, 101G, 124G, 136G, 201G, 211G, 223G  
THTR 101G

### **Second Language – No Second Language Required**

### **VIEWING A WIDER WORLD (6cr.)**

Viewing a Wider World courses are a prescribed list of  
300- and 400-level general education courses. You  
must take 2 courses from 2 different colleges.

\_\_\_\_\_ ECON 337V Natural Resources Economics  
2nd VWW completed with 9 hour rule