

DATE SUBMITTED November 11, 1993  
DATE DICC ADOPTED November 16, 1993

CATALOG NO. BIOL 211  
DATE LAST REVIEWED December 16, 1994

## COURSE INFORMATION FORM

DIVISION Life Sciences / Natural Sciences DISCIPLINE Biology

COURSE BIOL 211 Field Biology

CR. HR. 5 LECT. HR. 3 LAB. HR. 4 CLIN./INTERN. HR. 0

OR: CLOCK HR. N/A

### CATALOG DESCRIPTION

**Flora and fauna of selected biomes including field observation, identification, classification, and ecological relationships. Students must be prepared to camp out while in the field.**

### PREREQUISITES

**BIOL 101, BIOL 104, or BIOL 106 with a minimum grade of C, and consent of instructor**

### EXPECTED STUDENT OUTCOMES

#### The student will:

- demonstrate an understanding of theoretical relationships between components in an ecosystem.
- accurately observe and evaluate a complex, natural ecosystem.
- be familiar with his/her ethical responsibilities to other components of an ecosystem.

### ASSESSMENT MEASURES

1. Written examinations
2. Field journal
3. Participation in field activities
4. Formal paper summarizing and interpreting the field journal, written in accepted scientific format and language

ATTACH COURSE OUTLINE BY UNITS OF INSTRUCTION

## BIOL 211 Field Biology Course Outline

- Unit I. Introduction to Biomes
  - A. Review of Basic Biological Principles
  - B. Properties of Populations
  - C. Population Growth and Regulation
  - D. Intraspecific Competition
  - E. Interspecific Competition
  - F. Plant-Herbivore Systems
  - G. Herbivore-Carnivore Systems
  - H. Parasites and Diseases
  - I. Mutualism
  
- Unit II. The Community
  - A. Community Basics
  - B. Succession
  - C. Disturbance
  
- Unit III. Field Studies

*NOTE: Different systems will be observed depending on the particular site selected for the field studies.*

  - A. Classification of Ecosystems
  - B. The Soil System
  - C. Grasslands, Savannas, Shrublands and Deserts, Forests and Tundra
  - D. Freshwater Ecosystems
  - E. Marine Ecosystems