

# ECOLOGY-ECOL (ECOL)

## Courses

### ECOL 505 Foundations of Ecology Credits: 3 (2-0-1)

**Course Description:** Overview of the science of ecology; what questions are asked, how they are answered.

**Prerequisite:** LAND 220 or LIFE 320 or NR 220 or LIFE 220.

**Term Offered:** Fall.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 540 Insect Ecology Credits: 3 (2-0-1)

**Also Offered As:** AB 540.

**Course Description:** Dynamics and regulation of insect populations, including predator-prey and host-parasite interactions, and pollination; insect diversity and declines, community structure and ecosystem services.

**Prerequisite:** BSPM 302 and LIFE 320.

**Restriction:** Must not be a: Freshman, Sophomore, Junior.

**Registration Information:** Senior standing. Must register for lecture and recitation. Credit allowed for only one of the following: AB 540, AB 581A2, ECOL 540, or ECOL 581A2.

**Term Offered:** Spring (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 571 Advanced Topics in Ecology Credits: Var[1-3] (0-0-0)

**Course Description:** Current research topics presented and analyzed by visiting scientists.

**Prerequisite:** None.

**Registration Information:** One course in ecological principles.

**Term Offered:** Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 592 Interdisciplinary Seminar in Ecology Credits: Var[1-3] (0-0-0)

**Course Description:** Concepts and principles of basic and applied ecology in an interdisciplinary context.

**Prerequisite:** None.

**Registration Information:** One 300- or 400-level course in ecology.

**Terms Offered:** Fall, Spring.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

### ECOL 600 Community Ecology Credits: 3 (2-0-1)

**Course Description:** Current theories and tests of the dynamics and regulation of plant and animal communities.

**Prerequisite:** (STAT 100 to 499 - at least 1 course) and (MATH 141 or MATH 155 to 161 - at least 1 course or MATH 255 to 261 - at least 1 course) and (LAND 220 or LIFE 320 or NR 220 or LIFE 220).

**Restriction:** Must be a: Graduate, Professional.

**Registration Information:** Must register for lecture and recitation.

**Term Offered:** Spring.

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 610 Ecosystem Ecology Credits: 3 (3-0-0)

**Course Description:** Concepts, methods, issues in ecosystem science: energy and matter cycling; systems perspectives, simulation modeling, sustainability, global change.

**Prerequisite:** LIFE 320 or ECOL 000 to 9999 - at least 1 course.

**Restriction:** Must be a: Graduate, Professional.

**Term Offered:** Fall (even years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 620 Applications in Landscape Ecology Credits: 4 (2-2-1)

**Course Description:** Spatial patterning of landscape elements and dynamics of ecological systems; spatial heterogeneity. Influence on biotic and abiotic processes.

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Registration Information:** Must register for lecture, lab, and recitation. Previous coursework in geographic information systems, ecology, statistics, and mathematics.

**Term Offered:** Spring (odd years).

**Grade Mode:** Traditional.

**Special Course Fee:** No.

### ECOL 693 Research Seminar Credit: 1 (0-0-1)

**Course Description:** Critique of research programs, plans, and ecological theory.

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Registration Information:** Written consent of instructor.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** S/U Sat/Unsat Only.

**Special Course Fee:** No.

### ECOL 695 Independent Study Credits: Var[1-18] (0-0-0)

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

### ECOL 698 Research Credits: Var[1-18] (0-0-0)

**Course Description:** Non-thesis research in ecology.

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

### ECOL 699 Thesis Credits: Var[1-18] (0-0-0)

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.

### ECOL 799 Dissertation Credits: Var[1-18] (0-0-0)

**Course Description:**

**Prerequisite:** None.

**Restriction:** Must be a: Graduate, Professional.

**Terms Offered:** Fall, Spring, Summer.

**Grade Mode:** Instructor Option.

**Special Course Fee:** No.