

GRADUATE DEGREE PROGRAM IN ECOLOGY

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.