Ecology-ECOL (ECOL)

Courses

ECOL 505  Foundations of Ecology  Credits: 2 (2-0-0)
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 571  Advanced Topics in Ecology  Credits: Var[1-3]
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]
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.
Prerequisites: (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, laboratory, and recitation. Previous coursework in geographic information systems, ecology, statistics, and mathematics.
Term Offered: Fall (even 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.
Term Offered: Fall, Spring, Summer.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

ECOL 695  Independent Study  Credits: Var[1-18]
Course Description: Non-thesis research in ecology.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

ECOL 698  Research  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

ECOL 699  Thesis  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

ECOL 799  Dissertation  Credits: Var[1-18]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.