

# NATURAL RESOURCES (NR)

## NR 1010 Exploring Natural Resources (2 credits)

Introduction to the interdisciplinary fields and professions in natural resources. Includes field trips. Typically Offered: Fall.

## NR 2000 (s) Seminar (1-16 credits, max 99)

Credit arranged

## NR 2030 (s) Workshop (1-16 credits, max 99)

Credit arranged

## NR 2040 (s) Special Topics (1-16 credits, max 99)

Credit arranged

## NR 2110 Undergrad Research Experience I (2 credits)

Introduction to the scientific method in natural resources and environmental sciences, including ethics as it applies to research. Students are selected through an application process and are provided a budget to pursue a research topic of interest. Depending on project, student may participate in trips and laboratory study. Graded Pass/Fail. Typically Offered: Fall.

**Prereqs:** Major in College of Natural Resources and instructor permission

## NR 2120 Undergrad Research Experience II (1 credit)

Continuation of NR 2110. Focus on describing data and various methods of reporting research results. Depending on project, student may participate in field trips and laboratory study. Participation in UI Undergraduate Research Symposium is expected.

**Prereqs:** NR 2110

## NR 2990 (s) Directed Study (1-16 credits, max 99)

Credit arranged

## NR 3000 Ecology and Conservation Biology Thesis Seminar (1 credit)

A survey of issues related to professional development and thesis preparation in the field of ecology and conservation biology.

**Prereqs:** Instructor permission

## NR 3210 Ecology (3 credits)

Fundamental principles of the science of ecology. Major topics covered by the course include the physical environment, how organisms interact with each other and their environment, evolutionary processes, population dynamics, communities, energy flow and ecosystems, human influences on ecosystems, and the integration and scaling of ecological processes through systems ecology. Computer-based materials are used extensively for guided independent learning of ecology. Course information: EcologyOnline. net. Recommended Preparation: Introductory botany and zoology.

**Prereqs:** Introductory biology or permission

## NR 3220 Field Ecology (2 credits)

Introduction to field methods in the science of ecology. This field course, offered in the Frank Church River of No Return Wilderness, emphasizes a unique outdoor experience for ecological observations and understanding. Methods for monitoring and ecological assessment will include experimental design, use of instruments for data collection, and data analysis. Typically Offered: Fall.

**Prereqs:** BIOL 1020 and BIOL 1020L, BIOL 1140, BIOL 1150, BIOL 1150L or Permission

**Coreqs:** NR 3210

## NR 3250 Community Ecology (3 credits)

Course examines major themes of community ecology, including structure, trophic dynamics, succession, complex interactions among species, herbivory, evolution, and coevolution. Course uses case histories of well-studied aquatic and terrestrial systems. Typically Offered: Fall.

**Prereqs:** FOR 2100/WLF 2200

## NR 3260 Ecosystem Ecology (3 credits)

Course focuses on understanding the physical, chemical, and biological processes regulating the dynamics of terrestrial and aquatic ecosystems. Includes discussion of classic and current topics in aquatic and terrestrial ecology that have established our understanding of ecosystem organization and function, integrating across disciplines of physiological, microbial, population, and community ecology to understand how and why ecosystems differ in composition, structure, and function, and how ecosystems change over time. Typically Offered: Spring.

**Prereqs:** FOR 2100/WLF 2200

## NR 4000 (s) Seminar (1-16 credits, max 99)

Credit arranged

## NR 4030 (s) Workshop (1-16 credits, max 99)

Credit arranged

## NR 4040 (s) Special Topics (1-16 credits, max 99)

Credit arranged

## NR 4050 (s) Professional Development (1-16 credits, max 99)

Credit arranged

## NR 4060 Teaching Assistant Practicum (1-2 credits)

Instructional and other classroom assistance for NR 1010 performed by students under faculty supervision.

**Prereqs:** Permission

## NR 4210 Advanced Field Ecology (2 credits)

General Education: Capstone Experience  
Field-based capstone course focused on applying ecological principles through ecological research, using experimental and descriptive approaches, comparative analysis, and modeling for field and small-group projects focused on aquatic and terrestrial ecology. Typically Offered: Spring.

## NR 4970 Senior Thesis (1-3 credits, max 3)

Independently plan and conduct a thesis project; write and defend the thesis under supervision of a supervisor.

**Prereqs:** Senior standing and Permission

## NR 4980 (s) Internship (1-16 credits, max 99)

Credit arranged

## NR 4990 (s) Directed Study (1-16 credits, max 99)

Credit arranged. For the individual student; conferences, library, field, or lab work.

**Prereqs:** Senior standing in the College of Natural Resources, 2.5 GPA, and Permission

## NR 5010 (s) Seminar (1-16 credits, max 99)

Credit arranged. Major philosophy, management, and research problems of wildlands; presentation of individual studies on assigned topics.

**Prereqs:** Permission

## NR 5020 (s) Directed Study (1-16 credits, max 99)

Credit arranged

## NR 5030 (s) Workshop (1-16 credits, max 99)

Credit arranged. Selected topics in the conservation and management of natural resources.

**Prereqs:** Permission

**NR 5040 (s) Special Topics (1-16 credits, max 99)**

Credit arranged

**NR 5050 Advanced GIS Applications in Wildlife Sciences (1 credit)**

Advanced wildlife GIS applications focusing on spatial home range computations and habitat studies; accelerated.

**Prereqs:** GIS experience or Permission

**NR 5250 Scientific Graphics Design (3 credits)**

Principles of graphics design for science, including the graphical presentation of data for printed and electronic journals, poster presentations, and oral presentations. Students will analyze published scientific graphics as well as learn to design their own graphs based on data from their graduate research or other sources.

**NR 5980 (s) Internship (1-16 credits, max 99)**

Credit arranged

**NR 5990 (s) Non-thesis Master's Research (1-16 credits, max 99)**

Credit arranged. Research not directly related to a thesis or dissertation.

**Prereqs:** Permission

**NR 6000 Doctoral Research and Dissertation (1-45 credits, max 99)**

Credit arranged

**Prereqs:** Admission to the doctoral program in Natural Resources and Department; Permission