

NATURAL RESOURCES (NR)

NR 101 Exploring Natural Resources (2 credits)

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

NR 200 (s) Seminar (1-16 credits)

Credit arranged

NR 203 (s) Workshop (1-16 credits)

Credit arranged

NR 204 (s) Special Topics (1-16 credits)

Credit arranged

NR 211 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.

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

NR 212 Undergrad Research Experience II (1 credit)

Continuation of NR 211. 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 211

NR 213 Indigenous Science Ways of Knowing (3 credits)

General Education: Natural/Integrated Science

Broad introduction to Indigenous Science, Traditional Ecological Knowledge (TEK), Indigenous Knowledge (IK), and the ways in which it is transmitted, shared, and protected with emphasis on understanding inherent relational and ethical aspects of Indigenous Knowledges in Indigenous communities and research contexts. Understand contemporary applications of Indigenous Science, TEK, and IK as integrated with Western scientific methods toward natural systems management and the ethical considerations of implementation. Application of Indigenous science and methods will be applied through a semester-long project using a common data set. Typically Offered: Fall.

NR 299 (s) Directed Study (1-16 credits)

Credit arranged

NR 300 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 321 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 322 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.

Prereqs: BIOL 102 and BIOL 102L, BIOL 114, BIOL 115, BIOL 115L or Permission

Coreqs: NR 321

NR 325 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 221/WLF 220

NR 326 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 221/WLF 220

NR 400 (s) Seminar (1-16 credits)

Credit arranged

NR 403 (s) Workshop (1-16 credits)

Credit arranged

NR 404 (s) Special Topics (1-16 credits)

Credit arranged

NR 405 (s) Professional Development (1-16 credits)

Credit arranged

NR 406 Teaching Assistant Practicum (1-2 credits)

Instructional and other classroom assistance for NR 101 performed by students under faculty supervision.

Prereqs: Permission

NR 421 Advanced Field Ecology (2 credits)

General Education: Senior 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 497 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 498 (s) Internship (1-16 credits)

Credit arranged

NR 499 (s) Directed Study (1-16 credits)

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

NR 501 (s) Seminar (1-16 credits)

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

NR 502 (s) Directed Study (1-16 credits)

Credit arranged

NR 503 (s) Workshop (1-16 credits)

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

Prereqs: Permission

NR 504 (s) Special Topics (1-16 credits)

Credit arranged

NR 505 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 525 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 598 (s) Internship (1-16 credits)

Credit arranged

NR 599 (s) Non-thesis Master's Research (1-16 credits)

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

Prereqs: Permission

NR 600 Doctoral Research and Dissertation (1-45 credits)

Credit arranged

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