

NATURAL RESOURCES: ENVIRONMENTAL ECONOMICS (M.S.)

<https://colsa.unh.edu/natural-resources-environment/program/ms/natural-resources-environmental-economics>

Description

NATURAL RESOURCES: ENVIRONMENTAL ECONOMICS

Most entering students have a BA/BS in economics or environmental/agricultural economics. Incoming students should have, at a minimum, coursework in intermediate microeconomic theory, econometrics, and calculus. Areas of interest include agricultural economics, community and regional economics, land economics, water economics, and environmental economics.

Requirements

Degree Requirements

An M.S. degree is conferred upon successful completion of a program of not less than 30 credits for natural resources and the environment options: forestry, environmental conservation and sustainability, environmental economics, ecosystem science, and wildlife and conservation biology.

Course Requirements or Equivalent

Code	Title	Credits
Select one of the following: ¹		
NR 903 & NR 905	Approach to Research and Grant Writing	4
or NR 903 & BIOL 902	Approach to Research and Writing and Publishing Science	
or NR 903 & BIOL 950	Approach to Research and Scientific Communication	
NR 993	Natural and Environmental Resources Seminar	2
NR 996	Natural Resource Education	2
or LSA 900	College Teaching	
Select one of the following Data Analysis courses: ¹		
ANFS 933	Design, Analysis, and Interpretation of Experiments	
BIOL 811	Experimental Design & Analysis	
DATA 800	Introduction to Applied Analytic Statistics	
ECON 926	Econometrics I	
EDUC 904	Qualitative Inquiry in Research	
ESCI 801	Quantitative Methods in Earth Sciences	
MATH 835	Statistical Methods for Research	
MATH 840	Design of Experiments I	
MATH #969	Topics in Probability and Statistics I	
NR 909	Analysis of Ecological Communities and Complex Data	
POLT #905	Introduction to Statistical Analysis	
PSYC 805	Research Methodology and Statistics I	
PSYC 907	Research Methods and Statistics III	
SOC 901	Sociological Methods I: Intermediate Social Statistics	
SOC 903	Sociological Methods III: Advanced Social Statistics	
SOC 904	Sociological Methods IV: Qualitative and Historical Research Methods	
Select one of the following:		
NR 899	Master's Thesis (and a formal presentation of the thesis) ²	6
NR 998	Directed Research (and directed research results) ³	4

- ¹ Or other alternative with approval from the Graduate Coordinator.
- ² The thesis option will provide a research-based thesis that is the foundation for a peer-reviewed publication.
- ³ The directed research option shall consist of a project, designed and conducted by the student, culminating in a scholarly paper or report that is suitable for publication in the respective field of scholarship.

An approved program of study plan is required during the first semester.

Environmental Economics Option Requirements

Code	Title	Credits
ECON 926	Econometrics I	4
ECON 976	Microeconomics I	4

Student Learning Outcomes

Key Learning Objectives:

- Knowledge and skills outcomes to ensure graduates of the MS program have mastered their discipline: demonstrate knowledge of theory and practice, as well as critical thinking skills and creativity, in conducting ecological, economic, and policy assessment of natural resource and environmental issues and developing solutions to environmental problems;
- successfully employ the field, laboratory, data analysis, and social science skills necessary to perform research concerning natural resources and their management;
- design, propose, and execute research addressing fundamental or critical issues in natural resources;
- contribute to scholarship through publication and presentation of research findings using diverse media.

Professional outcomes to ensure graduates of the MS program successfully compete for jobs in the public and private sectors:

- demonstrate mastery of theory and empirical knowledge in their research concentration and, more generally, in the relevant natural and/or social;
- use written and oral skills to communicate effectively with colleagues, stakeholders, and the public;
- integrate theory and practice to analyze, assess, and solve environmental and social problems and answer questions across diverse scales from local to global;
- develop and employ interdisciplinary relationships and approaches to addressing environmental issues;
- interact with professional peers honestly and ethically, and in ways that show cultural sensitivity, inquisitiveness, and propensity for teamwork.