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 Equivalents

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR 903</td>
<td>Approach to Research</td>
<td>4</td>
</tr>
<tr>
<td>&amp; NR 905</td>
<td>and Grant Writing</td>
<td></td>
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<tr>
<td>or NR 903</td>
<td>Approach to Research</td>
<td></td>
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<tr>
<td>&amp; BIOL 902</td>
<td>and Writing and Publishing Science</td>
<td></td>
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<tr>
<td>or NR 903</td>
<td>Approach to Research</td>
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<tr>
<td>&amp; BIOL 950</td>
<td>and Scientific Communication</td>
<td></td>
</tr>
<tr>
<td>NR 993</td>
<td>Natural and Environmental Resources Seminar</td>
<td>2</td>
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<tr>
<td>NR 996</td>
<td>Natural Resource Education</td>
<td>2</td>
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<tr>
<td>or LSA 900</td>
<td>College Teaching</td>
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Select one of the following Data Analysis courses: 1

- ANFS 933: Design, Analysis, and Interpretation of Experiments
- BIOL 811: Experimental Design & Analysis
- DATA 850: Introduction to Applied Analytic Statistics
- ECON 926: Econometrics I
- EDUC 404: Qualitative Inquiry in Research
- ESCI 801: Quantitative Methods in Earth Sciences
- MATH 835: Statistical Methods for Research I
- 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
- NR 998: Directed Research (and directed research results) 3

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

Environmental Economics Option Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 926</td>
<td>Econometrics I</td>
<td>4</td>
</tr>
<tr>
<td>ECON 976</td>
<td>Microeconomics I</td>
<td>4</td>
</tr>
</tbody>
</table>

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.