

Minor in Environmental Economics & Policy (Non-Teaching)

The Environmental Economics and Policy minor teaches students to analyze environmental issues and policies using economic principles. The program includes a rigorous grounding in economics and statistics. The centerpiece of the program is a set of three upper-division courses in Natural Resource, Environmental, and Energy Economics, of which students will choose two. These courses focus heavily on policy analysis. To give students a fundamental grounding in the science of environmental problems, the program includes directed electives in environmental science. And to provide a broader perspective on policy analysis, it includes directed electives in environmental policy, law, natural science, and social science.

Program Learning Outcomes

- Explain how markets operate and the effects of government policies on those markets.
- Analyze changes in market conditions in a broad array of settings and determine the impact on the various groups most affected by the change.
- Analyze and evaluate environmental policies, assessing their effectiveness, efficiency, and equity implications.
- Identify appropriate policy instruments and design strategies to tackle emerging environmental challenges while balancing economic, social, and ecological considerations.
- Integrate economic analysis with concepts from environmental sciences and other fields to assess environmental challenges and propose sustainable solutions.
- Recognize empirical research methods used in environmental economics and policy evaluation, comprehend potential approaches to answer a novel empirical question, and apply basic statistical techniques to analyze economic or environmental data.
- Interpret and present ideas effectively in oral and written forms to those in the environmental and related fields.

Choose one Introductory Economics course: 3

ECNS 101IS Economic Way of Thinking

ECNS 132 Econ & the Environment

ECNS 204IS Microeconomics 3

Choose two of the following: 6

ECNS 332 Econ of Natural Resources

ECNS 433 Economics of the Environment

ECNS 335 Energy Economics

STAT 216Q Introduction to Statistics 3

Choose one Environmental Science and GIS Elective: 3

GPHY 284 Intro to GIS Science & Cartog

GPHY 384 Adv GIS and Spatial Analysis

GPHY 426 Remote Sensing

AGTE 330 Alternative Power & Energy Technology

BIOE 370 General Ecology

ECHM 205CS Energy and Sustainability

ENSC 210 Role of Plants in the Environment

ENSC 245IN Soils

ENSC 272CS Water Resources

ENSC 353 Environmental Biogeochemistry

ENSC 391 Special Topics

ENSC 407	Environmental Risk Assessment	
NRSM 240	Natural Resource Ecology	
Choose one Environmental Policy/Social Science/Law Elective:		3
PSCI 240	Introduction to Public Administration	
PSCI 362	Natural Resource Policy	
SOCI 470	Environmental Sociology	
GPHY 326	Geography of Energy Resources	
GPHY 329	Environment and Society	
GPHY 365	Geographical Planning	
GPHY 402	Water and Society	
AGBE 315	Ag in a Global Context	
ECNS 317	Economic Development	
ECNS 320	Public Finance	
AGBE 337	Agricultural Law	
BGEN 361	Principles of Business Law	
EENV 387	Environmental Laws and Regulations	
NRSM 430	Natural Resource Law	
Total Credits		21