

Environmental Science and Resource Management

Undergraduate Student Learning Objectives

Students completing the B.S. in Environmental Science and Resource Management will have the following:

KNOWLEDGE SETS:

- Understand social, ecological, and economic theory, concepts, and processes at a variety of spatial, temporal, and institutional levels.
- Understand biological, physical, and chemical processes.
- Understand professional and environmental ethics.
- Understand application of ecosystem and social concepts along the urban to wildland gradient.
- Understand the processes of science, design, and management; the process models used to describe and communicate them; and their role in contemporary environmental issues.

SKILL SETS:

- Effectively work in interdisciplinary teams.
- Effectively communicate to a diversity of audiences using written, oral, and graphic methods.
- Effectively access, evaluate, and use information and information tools.
- Recognize research methods used by the social, natural, and design sciences.
- Effectively apply analytical skills, including basic measurement and monitoring skills, and use of appropriate technology.
- Effectively complete at least one of the following: devise and conduct a scientifically sound inquiry; design an environmental system or a component of an environmental system; or devise a management plan, including plans for its implementation.

DEVELOPING COMPREHENSION, INTEGRATION AND MEANING:

- Understand interactions among plant, animal, and abiotic features of ecosystems.
- Understand business, ecological, and social tradeoffs inherent in natural resource management and use.
- Understand and evaluate policy in context with cultural and historical heritage.
- Understand the expected consequences of implementing a research, design, or management plan and be able to explain them.