

ESR 171 : Environmental Science: Biological Perspectives

Covers environmental topics that are primarily biological in nature. Includes human population issues, matter and energy resources, ecosystems, environmental ethics, and food and land resources. The associated laboratories will illustrate these topics and may include fieldwork.

Fieldwork Statement:

Fieldwork is a professional competence in many areas of Environmental Studies. Standard field practices include measurements of abiotic and biotic components in a variety of environmental conditions and habitat types. Fieldwork includes use of all the senses to make observations in natural and built environments. Field training may include developing skills in site characterization, application of key terms and concepts, species identification, and measurement and data collection using appropriate equipment. Fieldwork may include inherent risks (uneven terrain, off-trail work with map & compass, variable weather, insects, environmental irritants, travel, stress, etc.).

Credits 4

Prerequisites

Equivalent placement test scores also accepted.

Subject

[Environmental Studies](#)

Course Outcomes

Upon completion of the course students should be able to:

- Express graphically, orally or in writing, basic elements and functions of ecosystems.
- Identify and express interactions of humans and the environment.
- Utilize field and laboratory methods and technologies to measure and describe ecosystems.
- Demonstrate an understanding of ecosystem functioning and human effects upon ecosystems.

Prerequisite Courses

[WR 115](#)

[RD 115](#)