

ESR 172: Environmental Science: Chemical Perspectives

Covers environmental topics that are primarily chemical in nature. Includes air pollution, global warming, toxicology, risk assessment, water pollution, and hazardous waste. 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.).

Course Student Learning Outcomes

Upon completion of the course students should be able to:

- Express graphically, orally or in writing, basic elements of chemistry in the environment.
- Identify and express interactions of humans and the environment.
- Utilize field and laboratory methods/technologies to measure and describe environmental factors.
- Demonstrate an understanding of environmental chemistry and human effects upon it.

Credits: 4

Prerequisites: [WR 115](#) [RD 115](#) [MTH 20](#) Equivalent placement test scores also accepted.

Program: [Environmental Studies](#)