

ENSC 2003 Environmental Management

Catalog Description: The human impact on resources and ecosystems. Study of the changing role of management from economic exploitation to environmental conservation and protection, along with multiple use strategies. Evaluate various wildlife and habitat management techniques along with a review of environmental policies dealing with water, air, and soil pollution abatement and mitigation.

Prerequisite: Successful completion of Environmental Biology (BOTY 2534) or Environmental Science (ENSC 1003) or Principles of Biology (BIOL 1544) or consent of instructor.

Corequisite: Environmental Management Laboratory (ENSC 2001L)

Credit Hours/ Contact Hours/ Load Hours: 3/3/3

Target Audience/Transferability: Successful completion of this course should prepare students for successful further study in environmental and regulatory science. This is a required course for the Environmental & Regulatory Science AAS Degree. ENSC 2003 will transfer to the University of Arkansas at Fayetteville in the Environmental, Soil, and Water Science as elective credit. Transferability should be confirmed with the receiving institution.

Student Learning Outcomes: Students completing this course will:

- Describe the interrelationship between living organisms and their habitats.
- Identify techniques used today in forestry, wildlife, fish, soil, water, and air quality management.
- Develop an environmental based project using GIS (Global Information Systems).
- Identify GIS applications in environmental management industries.

Topics:

- Environmental Ethics
- Human Impact on Resources and Ecosystems
- Land-Use Planning
- Soil and Its Uses
- Agricultural Methods and Pest Management
- Water Management
- Air Pollution
- Pollution and Policy
- Risk and Cost
- Measuring Risk
- GIS applications
- Economics and the Environments
- Environmental Policy and Decision Making

Northwest Arkansas Community College
Division of Science & Mathematics

Forms of Assessment: Variable methods, which include but are not limited to, written and oral presentations utilizing project-based learning methodology, exams and laboratory activities.