

ENSC 2001L Environmental Management

Catalog Description: This is designed to be taken as a corequisite and to amplify further, ENSC 2003. Class exercises will include laboratory experiments and analysis, field studies, discussion and reports. An environmentally based EAST/EMPACTS project will include the use of GIS (Geographic Information Science) and other innovative technologies. Three hours laboratory weekly.

Corequisite: ENSC 2003 Environmental Management

Credit hours/ Contact hours/ Load hours: 1/3/1

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
- Economics and the Environments
- Environmental Policy and Decision Making

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