

ENVN 120 : Environment Science II

A continued Interdisciplinary study of both natural (biology, chemistry, geology) and social (economics, politics, ethics) sciences as they apply to the environment. Focus on energy issues, global warming, ozone loss, land use, conservation and management of resources, the impact of deforestation on biodiversity, waste, and sustainable practices. Emphasis is placed on a holistic approach to environmental science using laboratory exercises, environmental surveys, and class discussions to reinforce scientific principles.

Credits 4

Prerequisites

or any MATH above Enrichments; LIBR 150 may be taken concurrently with course.

Prerequisite Courses

ENVN 110

MATH 120

LIBR 150

Course Outcomes

After successfully completing the course, the learner will be able to:

- Apply principles of evolution, genetics, biodiversity, and ecology;
- Demonstrate sufficient background and experience to continue in more advanced science courses if desired successfully.
- Demonstrate the primary use of selected biological and marine equipment and laboratory procedures;
- Describe specific characteristics of environmental problems and their relationships to the sustainability of life;
- Evaluate the implication of personal and cultural experiences in determining attitudes toward environmental issues.
- Explain the basic principles of science, biogeochemical systems, and their role in ecosystems;
- Explain the cycling of matter and the movement of energy through various ecosystems.
- Explain the structures and functions of marine, aquatic, food, soil, mineral, and energy resources;
- List and analyze the organizational roles of living organisms in ecosystems and how ecosystems change through time.

Competency

Scientific Reasoning