

Common Course Outline

ENVS 146

Natural Resource Systems

3 Semester Hours

The Community College of Baltimore County

Description

Natural Resource Systems

Explores the basics of ecology and natural resource systems and delve into topics such as biodiversity, resource extraction, and habitat management; examines scientific, economic, and policy aspects of natural resource decision-making and utilize resource valuation methodologies.

Prerequisite: ENVS 101 or permission of program coordinator

Overall Course Objectives

Upon successful completion of ENVS 146, a student will be able to:

1. Articulate a knowledge of the complex issues associated with natural resource management.
2. Analyze problems and offer solutions to natural resource issues introduced in case studies.
3. Utilize the appropriate technical language and concepts used in natural resources management.
4. Conduct a preliminary assessment of natural resource values and human impacts.
5. Conduct source research necessary to perform analysis and problem solving assignments.
6. Describe various methods of valuing natural resources.
7. Relate public policy to outcomes in natural resource management.
8. Apply the principles of sustainable development and management to natural resource questions.
9. Use maps, aerial photographs, charts, and graphs to understand natural resources.
10. Evaluate the core issues and conflicting interests in natural resource use.
11. Reflect on their personal values and the impact they have on natural resources.
12. Integrate the scientific, economic and cultural concepts of natural resource management into challenges encountered beyond the course.
13. Contact governmental or private agencies that deal with forestry, fisheries, conservation, mining, or wildlife management.

Major Topics

Natural Resources: Values and Environment

Natural Resources Management

Landscape Ecology

Human Intervention in the Environment

Balancing Competing Interests: Use, Preservation and Restoration Strategies

Watershed Analysis and Management

Resource Management

Environmental Restoration

Future of Natural Resources Management

Course Requirements

Grading procedures will be determined by the individual faculty member but may include written or oral exams, completion of written assignments or papers, and participation in class discussion and group activities.

Other Course Information

ENVS 146 serves as an elective in the A.A.S. degree and certificate programs in Environmental Science and Technology.

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