

COLLEGEWIDE COURSE OUTLINE OF RECORD

BIO 220, ENVIRONMENTAL SCIENCE

COURSE TITLE: Environmental Science

COURSE NUMBER: BIO 220

PREREQUISITES: Demonstrated competency through appropriate assessment or earning a grade of "C" or better in ENG 025, Introduction to College Writing II; and ENG 032, Reading Strategies for College II; and MAT 044, Mathematics.

DIVISION: General Education

PROGRAM: General Education

CREDIT HOURS: 3

CONTACT HOURS: Lecture: 2 Lab: 2

DATE OF REVISION: Spring, 2004

EFFECTIVE DATE OF THIS REVISION: Fall, 2004

CATALOG DESCRIPTION: Survey of the basic concepts of ecology, natural resources and ecosystems, relationships between humans and their natural environment, and the magnitude and scope of global environmental problems.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Understand environmental problems and their causes.
2. Provide examples of the history of resource use and conservation.
3. Understand the types and concepts of matter and energy in ecosystems.
4. Describe ecosystems and how they work and interact.
5. Understand population dynamics.
6. Describe the concepts of global warming and ozone loss.
7. Understand energy efficiency, renewable and non-renewable energy.
8. Understand the chemistry of air and air pollution.
9. Understand the chemistry of water and water pollution.
10. Compare world food resources and alternatives.
11. Compare and contrast environmental worldviews.
12. Compare and contrast environmental ethics and sustainability.

COURSE CONTENT: Topical areas of study include --

Environmental problems
Environmental history
Matter and energy principles
Ecosystems
Population
Greenhouse effect
Ozone layer

Energy types and concepts
Chemistry of air
Chemistry of water
Food resources
Environmental worldviews
Environmental ethics
Environmental sustainability

ACADEMIC HONESTY STATEMENT:

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

ADA STATEMENT:

Ivy Tech State College seeks to provide reasonable accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, please contact the Office of Disability Support Services.

If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classroom.