

Date Prepared: August 3, 2003

New       Revised  
(Check One)

Effective Date: Fall 2003

## COURSE OUTLINE

1. COURSE PREFIX and NUMBER: **BIO 107** CREDIT HOURS: 4
2. COURSE TITLE: **Biology of the Environment**
3. PREREQUISITES: Satisfactory Score on Reading Placement Test
4. COURSE DESCRIPTION: Presents the basic concepts of environmental science through a topical approach. Includes the scientific method, population growth and migration, use of natural resources and waste management, ecosystem simplification recovery, evolution, biogeochemical cycles, photosynthesis and global warming, geological formations, atmosphere and climate, and ozone depletion and acid deposition. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.
5. CONTENT: (Major Headings)
  - a. Scientific Method
  - b. Population Growth and Migration
  - c. Use of Natural Resources and Waste Management
  - d. Ecosystem Simplification and Recovery
  - e. Evolution
  - f. Biogeochemical Cycles
  - g. Photosynthesis and Global Warming
  - h. Geological Formations
  - i. Atmosphere and Climate
  - j. Ozone Depletion and Acid Deposition

6. GENERAL COURSE OBJECTIVES:

Upon successful completion of the course, the student will be able to:

- a. Understand environmental science using a multidisciplinary approach.
- b. Use critical thinking skills to evaluate scientific and technical issues both personally and more globally.
- c. Understand key concepts of biology, chemistry, and physics and relate them to social, political and ethical issues.
- d. Express scientific concepts in both oral and written form.