

Date Prepared: August 2, 2003

New       Revised  
(Check One)

Effective Date: Fall 2003

## COURSE OUTLINE

1. COURSE PREFIX and NUMBER: **BIO 106** CREDIT HOURS: 4
2. COURSE TITLE: **Life Science**
3. PREREQUISITES: Satisfactory Score on Reading Placement Test.
4. COURSE DESCRIPTION: Provides a topical approach to basic biological principles. Includes the scientific process, characteristics of living organisms, molecular aspects of cells, bioenergetics, cellular and organismal reproduction genetics, evolution, and ecology. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.
5. CONTENT: (Major Headings)
  - a. scientific process
  - b. bioenergetics
  - c. reproduction and genetics
  - d. evolution and ecology
6. GENERAL COURSE OBJECTIVES:

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

- a. Use the scientific process to analyze problems.
- b. Understand the bioenergetics in his/her own life.
- c. Understand current reproduction and genetic topic.
- d. Realize the action of ecology on evolution.
- e. Apply scientific facts and scientific processes to life-long learning.
- f. Relate a knowledge of science and biology to other disciplines - social, political, ethical, business, and insurances issues.
- g. Think clearly and critically to become actively and intellectually involved, and relate materials to their own lives.
- h. Communicate ideas; gather, organize, and think critically about information; and apply the subject to other disciplines.