

Date Prepared: August 3, 2003

New       Revised  
(Check One)

Effective Date: Fall 2003

### **COURSE OUTLINE**

1. COURSE PREFIX and NUMBER: **BIO 147** CREDIT HOURS: 1
2. COURSE TITLE: **Science of Heredity Laboratory**
3. PREREQUISITES: BIO 146, Human Heredity.
4. COURSE DESCRIPTION: Uses laboratory format to explore the principles of classical and contemporary genetics. Laboratory 3 hours per week.
5. CONTENT: (Major Headings)
  - a. Data collection and analysis
  - b. Pedigree analysis
  - c. Chromosome analysis
  - d. DNA isolation and analysis
  - e. Population genetics
  - f. Forensics

6. GENERAL COURSE OBJECTIVES:

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

- a. Collect and analyze scientific data.
- b. Perform normal techniques in the analysis of genetic data at the molecular, organism and population levels.