I. BIO 102 Introduction to Biology II - 4 Semester Hours

II. Course Description

Introduction to Biology II is the second of a two-sequence course designed for non-science majors. It covers evolutionary principles and relationships, environmental and ecological topics, classification, and a survey of biodiversity. A 120-minute lab is required.

III. Prerequisite

BIO 101

IV. Textbook

Due to the varied selection of quality college level textbooks, each college will select the textbook needed to meet the requirements of this course.

V. Course Objectives

A. The student will develop an understanding of the major concepts of the theory of evolution and its relationship to today’s diverse life forms.
B. The student will study examples of various life forms, how they are classified and their ecological roles.
C. The student will develop an understanding of the biotic and abiotic factors which influence various biomes.
D. The student will study principles of population dynamics.
E. The student will develop an understanding of biodiversity by studying representative examples of the various kingdoms.

VI. Course Outline of Topics

Lecture Outline:

A. Introduction and course overview
B. Origin of life
C. Historical and modern evolutionary theory
D. Speciation
E. Classification
F. Viruses
G. Monera
H. Protista
I. Fungi
J. Plantae
K. Animalia
L. Ecosystems
M. Biogeochemical cycles
N. Population dynamics
O. Community concepts
P. Contemporary environmental issues

Lab Outline:

A. Evolution (fossils)
B. Natural selection
C. Classification
D. Prokaryotes
E. Protista and fungi
F. Plants
G. Invertebrates
H. Vertebrates
I. Habitat analysis

VII. Evaluation and Assessment

Lecture exams
Lab reports
Observed/graded performance of lab techniques
Lab exams
Other activities

The laboratory experience should represent approximately 25 percent of the final grade for this course. Grades will be given based upon A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, and F = below 60%.

VIII. Attendance

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student’s ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid.
IX. Statement on Discrimination/Harassment

The College and the Alabama State Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual’s race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

X. Americans with Disabilities

The Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student’s responsibility to provide appropriate disability documentation to the College.