

# Common Course Outline

## BIOL 100

### Exploring Biology

3 Credits

## Community College of Baltimore County

### Description

**BIOL100 – 3 credits – Exploring Biology** examines modern biological principles to increase awareness of the relationships between scientific thought, current knowledge in biology, and everyday living. This course does not serve as a prerequisite for other biology courses.

### **3 credits**

**Prerequisites:** ACLT 052 or ACLT 053 and MATH 081

### Overall Course Objectives

Upon completion of this course students will be able to:

1. list and describe the characteristics common to all living things;
2. apply the scientific method to simple problems;
3. read and summarize information from basic biological publications;
4. describe evolution from the scientist's point of view;
5. explain the present form of organisms using the Darwinian system;
6. name and recognize biological molecules necessary for life;
7. explain diversity of species and within species;
8. explain how scientific advances in medicine impact humans;
9. identify and label structures common to all organisms' cells; and
10. provide examples in which intellect, scientific method, and technology have been used to understand living things.

### Major Topics

- I. Scientific method
- II. Characteristics of living things
- III. Evolution
- IV. Diversity of plants and animals
- V. Cell theory
- VI. Biological molecules
- VII. Biotechnology
- VIII. Special topics which may include:
  - A. Plant anatomy and physiology
  - B. Animal anatomy and physiology
  - C. Patterns of inheritance
  - D. History of science
  - E. Environmental issues

## **Course Requirements**

Grading procedures will be determined by the individual faculty member but will include the following:

Grading/Exams: at least three unit exams and at least 6 quizzes.

Written Assignments: a minimum of one formal essay/research paper and two graded assignments. Students are required to utilize appropriate academic resources.

## **Other Course Information**

BIOL 100 is a course intended for students who are not planning to enroll in higher level biology. Students may receive credit for only one of the following: BIOL 100, BIOL 108 or BIOL 110.

BIOL100 satisfies the General Education requirement for Biological Sciences but does not satisfy the laboratory requirement.