

Course Outline

Biology 100
Exploring Biology
3 Semester Hours

The Community College of Baltimore County

Description

Exploring Biology

Considers modern biological principles to increase awareness of the relationships between scientific thought, current knowledge in biology, and everyday living; does not serve as a prerequisite for other biology courses. Prerequisites: Reading Skill 2; English Skill 2; Math Skill 2. Students may receive credit for only one of the following: BIOL 100, BIOL 108 or BIOL 110.

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Recognize characteristics common to all living things. 1, I, II, III
2. Apply the scientific method to simple problems. 2, 3, VI
3. Read and summarize information from some basic biological publications. 3, 4, II, IV, VI
4. Describe evolution from the scientist's point of view. 1, 7, I, II, V
5. Explain the present form of organisms using the Darwinian system. 1, 7, I, II
6. Recognize biological molecules necessary for life. 1, I
7. Recognize diversity of species and within species. 1, I, III
8. Explain how scientific advances in medicine impact humans. 5, 6, II, IV, V
9. Recognize structures common to all organisms' cells. 1, I
10. Give examples where intellect, scientific method, and technology have been used to understand living things. 4, 7, I

Major Topics

Scientific method
Characteristics of living things
Evolution
Diversity of plants and animals
Cell theory
Biological molecules
Biotechnology

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include exams and quizzes.

Writing: Projects (group exercises, research papers, etc.).

Other Course Information

Biology 100 is a course intended for students who are not planning to enroll in higher level biology. It does not serve as a prerequisite for any other course.

Other topics from which instructors may choose at their discretion include:

- Plant anatomy and physiology
- Animal anatomy and physiology
- Patterns of inheritance
- History of science
- Environmental Issues