

Common Course Outline

BIOL 100

Exploring Biology

3 Credits

The 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: (ENGL 052 and RDNG 052) or ACLT 052 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 and identify areas of potential bias and its ethical implications;
3. find, evaluate, use and cite valid sources in scientific reasoning and/or inquiry, and read and summarize information from popular science sources;
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, genetics, and biotechnology impact humans in different cultures and how these advances may affect personal decisions;
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 species
- V. Cell theory
- VI. Biological molecules
- VII. Advances in science and biotechnology

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:

Students are required to use appropriate academic resources.

- a minimum of one formal essay/research paper
- two additional graded assignments

Multiple assignments will infuse CCBC General Education Program objectives; at least one assignment worth a minimum of 10% of the total course grade will allow students to demonstrate at least 5 of the 7 General Education Program outcomes. 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.

This course is an approved 3-credit General Education course in the Biological and Physical Sciences category that **does not fulfill** the laboratory requirement. Please refer to the current CCBC Catalog for General Education course criteria and outcomes.