

Common Course Outline

BIOL 107

Human Biology

4 Credits

Community College of Baltimore County

Description

BIOL 107 - 4 Credits - Human Biology discusses the human body systems and development of the human species through physical, cultural, genetic and social viewpoints. This course is for students not planning a career in science or health fields.

4 Credits: 3 lecture hours and 2 laboratory hours per week

Prerequisite: (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. identify and briefly describe the principal systems of the body;
2. describe the macroscopic structure and function of each system;
3. describe how the body functions as a whole (interrelationship of systems);
4. identify and describe major challenges to homeostasis;
5. discuss the influences of the environment on human biology;
6. describe both personal and professional ethical and moral issues which arise from modern medical technology;
7. perform research, including internet searches, to obtain information on new developments in human biology
8. find, evaluate, use and cite appropriate academic resources to research information on new developments in human biology and present the information in written, oral or signed communications;
9. discuss potential geographical and cultural aspects of selected diseases and disorders;
10. compare different aspects of the fight against diseases in developed and underdeveloped countries; and
11. compare and contrast medical issues from social, cultural, aesthetic and environmental perspectives.

Major Topics

- I. Introductory chemistry
- II. Cell structure and function
- III. Tissue organization
- IV. Integumentary system
- V. Skeletal system and articulation

- VI. Muscular system
- VII. Nervous system
- VIII. Endocrine system
- IX. Circulatory system
- X. Lymphatic system
- XI. Respiratory system
- XII. Digestive system
- XIII. Urinary system
- XIV. Reproductive system

Course Requirements

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

Students are required to use appropriate academic resources.

Lecture: Grading for lecture will be 70-75% of the overall course grade and will be determined as follows:

- A minimum of three topic exams and a final exam
- A minimum of two quizzes
- A minimum of two written assignments, one of which must include a class presentation component – specific assignment format, length and grading will be determined by the instructor.

Laboratory: Grading for lab will be 25-30% of the overall course grade. Grading for lab must include a minimum of two categories of assignments chosen from the following:

- A minimum of four lab quizzes
- A minimum of two lab practical exams
- A minimum of four lab assignments (including but not limited to completion of lab manual exercise questions, formal lab reports, or written assignments)

Written Assignments

Students are required to utilize appropriate academic resources. 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.

Other Course Information

This course is an approved 4-credit General Education course in the Biological and Physical Sciences category that fulfills the laboratory requirement. Please refer to the current CCBC Catalog for General Education course criteria and outcomes.