

BIOL 107

Human Biology

4 Credits: 3 hours lecture and 2 hours lab

Community College of Baltimore County
Common Course Outline

Description

BIOL 107 – Human Biology: provides understanding of the human organism through physical, cultural, and genetic viewpoints for students in general studies and some of the allied health fields. This course discusses human body systems and serves as a basic overview of human anatomy, physiology, and pathology. This course is not a replacement for Biology 110 and is not a prerequisite for other science courses.

Co-requisites: ENGL 101 and MATH 082

Overall Course Objectives

Upon completion of this course, students will be able to:

1. Identify the major organ systems of the body;
2. describe the microscopic and macroscopic structure and function of each organ system of the body;
3. explain how the body functions as a whole including the interrelationship of the various organ systems;
4. elucidate homeostasis and the mechanisms involved in its maintenance;
5. describe body responses to physical activity including cardiovascular responses, muscle physiology, energy metabolism, and nutrition;
6. discuss the influences of the environment on human biology;
7. analyze personal, professional, ethical, and moral issues which arise from modern medical technology;
8. find, evaluate, use, and cite appropriate academic resources for activities involving scientific reasoning and/or inquiry;
9. evaluate different aspects of the fight against diseases in advanced and emerging economies;
10. compare diseases and medical issues from geographical, social, and cultural perspectives;
11. present scientific information in written, oral, or signed communications; and
12. use lab instruments or other technologies to perform scientific experiments that help explore the structure and functions of the human body.

Major Topics

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

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For more information, see your professor's syllabus.

- 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 will be determined by the individual faculty member, but shall include the following, at minimum:

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

- Three topic exams and a cumulative final exam
- Six lecture quizzes
- Two written assignments, one of which must be a research assignment that include a class presentation component and one which will assess General Education Outcomes

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:

- Six lab quizzes
- Two lab practical exams
- 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 use appropriate academic resources in their research and cite sources.

Students must pass both the lab and lecture components with a 60% or better; failure to earn a minimum of 60% in either lab or lecture will result in failure of the entire course.

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. One or more assignments will infuse CCBC General Education Program outcomes and will account for a minimum of 10% of the total course grade. The assignment(s) will allow students to demonstrate General Education program outcomes. Please refer to the current CCBC Catalog for General Education course criteria and outcomes.

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