

# Course Outline

**Biol 107**

**Human Biology**

**4 Semester Hours**

## The Community College of Baltimore County

### Description

#### **Human Biology**

Provides understanding of the human organism through physical, cultural, genetic, and social viewpoints for students not planning a career in science or health fields; discusses human body systems and the development of the human species.

4 credits: 3 lecture hours and 2 laboratory hours per week.

Prerequisite: ENGL 052, RDNG 052, MATH 081

### Overall Course Objectives

At the completion of this course, the student should be able to:

1. Identify and briefly describe the principal systems of the body (I, II, 1, 2).
2. Describe the macroscopic structure and function of each component of each system. Describe how the body functions as a whole (interrelationship of systems) (I, II, 1, 2).
3. Identify and describe some of the major challenges to homeostasis (I, III, 3, 7).
4. Discuss the relationship of the human race with the environment - past, present and future (V, 7).
5. Define ethical and moral issues which arise from modern medical technology (V, IV, 7).
6. Work collaboratively in small groups in analyzing and interpreting laboratory models and slides in dissecting organisms (III, 2, 4).
7. Perform web searches to obtain information on new developments in human biology and prepare weekly reports summarizing these developments and assessing their significance (I, III, IV, VI, 4, 5, 6).
8. Determine the answers to figure labeling exercises, and review questions by researching the answers from the text and original resources in the library and college internet sites and submitting the written answers to the teacher as part of the course grade (VI, 1).
9. Compare and contrast point/counterpoint issues which address different sides of an issue from social, cultural, aesthetic, and environmental perspectives in the form of either an open classroom discussion directed by the lecturer or in the form of a written essay (V, 7).

## **Major Topics**

1	Chemistry Biochemistry	7	Respiratory System
2	Cell Structure and Function Human Organization	8	Urinary System
3	Digestive system Nutrition	9	Skeletal System Muscular System
4	Composition of Blood Function of Blood	10	Nervous System Senses
5	Cardiovascular System	11	Endocrine System
6	Lymphatic System Immunity	12	Reproduction

## **Course Requirements**

*Grading/exams: The course grade will be determined by averaging four hourly exams, one final exam, a minimum of five lab quizzes, and a minimum of ten index cards with short synopses of science articles. The four hourly exams will account for 50% of the course grade, the final exam will account for 25% of the course grade, the lab grade will account for 20% of the course grade, and the index cards will account for 5% of the course grade. A written formal paper or graded responses for the in class discussions may substitute for one of the hourly exams.*

## **Other Course Information**

This course will fulfill the Laboratory Science graduation requirement from the Limited Distribution System .

Date Revised: 5/4/00