

**Blackwood Campus**

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Camden County College Courses

Biology

BIO 117 BASIC ANATOMY AND PHYSIOLOGY I

This course is designed to introduce the basic principles of anatomy and physiology to nursing and allied health students. Following an introduction to the organization of the human body, basic chemistry, and basic cell biology, Basic Anatomy and Physiology (BIO 117) examines the histology, gross anatomy and functions of organs of the integumentary, skeleton, muscular, and nervous systems. Laboratories are designed to supplement the lecture material and include the use of the following materials: histology slides, models, preserved specimens and computer simulated physiology exercises.

(Lecture: 30 hours; Lab: 60 hours)

Prerequisites: Elementary Algebra Traditional (MTH-029); Reading Skills III (ENG-013); Writing Skills III (ENG-023); Students who did not complete high school Biology with a grade of "C" or better are advised to take Preparation for Biology (BIO-010)

BIO 118 BASIC ANATOMY AND PHYSIOLOGY II

This course is designed to introduce the basic principles of anatomy and physiology to nursing and allied health students. Following an introduction to the organization of the human body and several body systems in Basic Anatomy and Physiology I (BIO-117), this continuation course examines the histology, gross anatomy and functions of organs of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Laboratories are designed to supplement the lecture material and include the use of the following material: histology slides, models, preserved specimens and computer simulated physiology exercises.

(Lecture: 30 hours; Lab: 60 hours)

Prerequisite: Basic Anatomy and Physiology I (BIO 117)

BIO 121 BASIC MICROBIOLOGY

This course is designed to introduce the basic principles of microbiology to nursing and allied health students. Topics include biological concepts of cell structure, growth, reproduction, genetics, classification, beneficial microbe/human interactions, infections and host defenses. Laboratory exercises are designed to teach microscopy, staining, cultivation and identification of bacteria, control of microbial growth, aseptic technique and proper disposal of contaminated items. Lecture and Laboratory activities will emphasize analytical thinking and problem-solving ability.

(Lecture: 45 hours; Lab: 45 hours)

Prerequisites: Elementary Algebra Traditional (MTH-029); Reading Skills III (ENG-013);

Writing Skills III (ENG-023) Students who did not complete high school Biology with a grade of "C" or better are advised to take Preparation for Biology (BIO-010).

BIO-211 ANATOMY AND PHYSIOLOGY I

The study of the human body's structure and function. A detailed examination will be made of the integumental, skeletal, muscular, nervous and endocrine systems.

(Lecture: 30 hours; Lab: 60 hours)

BIO-212 ANATOMY AND PHYSIOLOGY II

A continuation of Anatomy and Physiology I. The student will study the circulatory, respiratory, digestive, excretory and reproductive systems. Knowledge of the various systems will be correlated for a thorough understanding of the concept of homeostasis.

(Lecture: 30 hours; Lab: 60 hours)

Prerequisite: Anatomy and Physiology I

BIO-221 MICROBIOLOGY I

A comprehensive course covering the study of bacteria; fungi and viruses. Laboratory exercises emphasize standard techniques used in the food, health, pharmaceutical and other industries.

(Lecture: 45 hours; Lab: 45 hours)

FNS-105 INTRODUCTION TO NUTRITION

This course is designed to explore the fundamentals of nutrition from a scientific perspective. Students will learn the function and sources of the macro and micro nutrients needed to promote health and aid in disease prevention and treatment. Topics will include human metabolism, digestion, weight management, cultural influences on nutrition intake, and the absorption and transportation of nutrients. Students will learn how to assess and improve their nutritional health by completing a computerized diet analysis of their current eating habits. (This course does not satisfy a laboratory science elective).

(Lecture: 45 hours)

Chemistry

CHM-101 GENERAL CHEMISTRY I

Fundamental principles and concepts of General Chemistry including the topics of measurements, atomic structure, periodic table, chemical bonds, gases, solid liquids, stoichiometry, solutions, colloids, rates of chemical reaction, equilibrium and oxidation-reduction. Laboratory experiments illustrate the listed chemical principles and develop familiarity with laboratory techniques.

(Lecture: 45 hours; Lab: 45 hours)

English

ENG-101 ENGLISH COMPOSITION I

This course acquaints the student with the conventions of expository writing. It offers training in clear, logical communication and encourages the student to read, analyze, discuss and write. Because English Composition I is, to a great extent a humanities course, it also teaches the essay as an art form. The "substance" of English Composition is the essay: students study both the content and the rhetoric of selected essays and write essays which thoughtfully develops their own ideas in good rhetorical form.

(Lecture: 45 hours)

ENG-102 ENGLISH COMPOSITION II

English Comp. II is the second semester of a two-semester course. Its purpose is to develop more fully the reading, writing and speaking ability of the composition student to build on the basis of English Composition I. English Composition II will especially stress argumentative writing and will provide the student with a strong basis in the rhetoric of argumentation. In addition, the development of the student's research skills and ability to handle source material are important aspects of this course.

(Lecture: 45 hours)

Prerequisite: English Composition I

Humanities

Students are required to successfully complete two courses in Humanities. One of these will be the Biomedical Ethics Course.

Mathematics

MTH-111 ELEMENTS OF STATISTICS

This course is designed for students who need a basic knowledge of statistical and elementary research techniques. Topics covered include: frequency distributions, sigma notation, measures of central tendency, measures of variability, fundamentals of probability, binomial distribution, normal distribution, sampling distributions, confidence limits, sample size determination, and hypothesis testing on a single population.

(Lecture: 45 hours)

Prerequisites: ENG-013 and MTH-029

Philosophy

PHL-232 BIOMEDICAL ETHICS

This course presents an array of historically influential ethical theories in the hopes of facilitating the student's understanding of how ethical value judgements apply to real life issues and situations in medical related fields.

(Lecture: 45 hours)

Psychology

PSY-101 BASIC PSYCHOLOGY An introductory survey of major principles and scientific research findings on human behavior. Topics include: biological foundations of behavior, sensation and perception, basic principles of learning, information processing, memory, language, intelligence, motivation, emotion, personality, social behavior, mental disorders and therapies.

(Lecture: 45 hours)

PSY-109 DEVELOPMENTAL PSYCHOLOGY

Theories, research and practical applications are interwoven throughout this course, featuring a full life-span approach to physical, cognitive and psychosocial development. This course addresses both specific chronological (stage) issues and tasks, as well as topics that show up through several different stages. Timely topics include: temperament, pre-school education, parenting, obesity, drug abuse, the impact of socioeconomic status, and the seasons of adulthood.

(Lecture: 45 hours)

Prerequisite: Basic Psychology

Sociology

SOC-101 INTRODUCTION TO SOCIOLOGY

Designed to help students understand and think about the behavior of people in groups, with emphasis on mastery of fundamental sociological concepts and an introduction to systemic social analysis. The course will consider newer sociological developments, culture and socialization, social organization, social classes, collective behavior, population, urbanization and social change.

(Lecture: 45 hours)