

## CUMBERLAND COUNTY COLLEGE

Course: BI 106 Anatomy and Physiology

Credits: 4

Prerequisites:

MA 094, EN 060 and either BI 101 or CH 101. Students who have successfully completed College Preparatory, Honors or Advanced Placement Biology or Chemistry in high school with a grade of “C” or better (as documented on an official high school transcript) and are within three years of high school graduation when attempting to register for BI 106 Anatomy and Physiology I may request to waive the pre-requisite for BI 106. College-level proficiency in Reading, English and Mathematics is also required.

Description:

An integrated course with laboratory exercises closely correlated to the lectures dealing with: the concepts of homeostasis; the chemical basis for cell life; the functional and structural aspects of cells and tissues; the skeleton; the interrelationship between the nervous system and the muscular system; the reproductive system.

Learning Outcomes:

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

- Use working vocabulary of appropriate terminology in the study of homeostasis, chemistry, cells, tissues, the skeletal system, the muscular system and the reproductive system.
- Identify structures of cells, tissues, the skeletal system, the muscular system and the reproductive system.
- Differentiate among the various histological body tissue samples.
- Explain the function of the organs within a particular system and their importance to that system’s function and to maintaining homeostasis.
- Correlate structure and function relationships within a particular system.
- Integrate knowledge of anatomical and physiological aspects of the entire body.
- Utilize concepts of the scientific method investigating laboratory/clinical data.

Topical Outline:

- An introduction to the human body
- The chemical level of organization
- The cellular level of organization
- The tissue level of organization
- The skeletal system: bone tissue
- The skeletal system: the axial skeleton
- The skeletal system: the appendicular skeleton
- Joints
- Muscular tissue
- The muscular system

- The reproductive systems

Text:

Principles of Anatomy and Physiology. 14<sup>th</sup> edition. Totoro, G. and Derrickson, B. Wiley.  
Lab Manual for Anatomy and Physiology. Custom 5<sup>th</sup> ed. Allen, Wiley

Academic Integrity:

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist:

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

**Before Withdrawing From This Course:**

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.