

## CUMBERLAND COUNTY COLLEGE

Course: BI 105 Human Biology Laboratory

Credits: 1

Co- or Prerequisite: BI 104 Human Biology

### Description:

Provides students with laboratory experience in the topics covered in BI 104 Human Biology lectures. In these laboratory sessions, students will gain hands-on experience in human anatomy and physiology. Laboratory sessions will provide students with a basic overview of the normal structure and function of the body systems. This course is not intended for science majors.

### Learning Outcomes:

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

- Apply the concepts of homeostasis and stress to the body.
- Use basic anatomical terminology to discuss various structural aspects of the body.
- Apply basic chemistry and cell biology necessary for understanding physiologic processes.
- Describe the basic anatomy and physiology of cells (including bioelectricity), tissues of the body, the skeletal system, the muscular system, the nervous system, the endocrine system, the cardiovascular system, the respiratory system, the gastrointestinal system, the urinary system and the reproductive system.

### Topical Outline:

- The language of anatomy
- Organ systems overview
- The cell – anatomy and division
- Cell membrane transport mechanisms
- Classification of tissues
- Overview of the skeleton
- The axial skeleton
- The appendicular skeleton
- Joints and body movements
- Microscopic anatomy and organization of skeletal muscle
- Gross anatomy of the muscular system
- Neuron anatomy and physiology
- Gross anatomy of the brain and cranial nerves
- Spinal cord and spinal nerves
- The special senses
- Functional anatomy of the endocrine glands
- Blood
- Anatomy of the heart
- Anatomy of blood vessels

- Anatomy of the respiratory system
- Functional anatomy of the digestive system
- Functional anatomy of the urinary system
- Anatomy of the reproductive system

Text:

Essentials of Human Anatomy and Physiology Laboratory Manual 6<sup>th</sup> edition. Marieb, E. 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.