

# BIO 227 - HUMAN ANATOMY & PHYSIOLOGY I

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- Articulate curiosity about AP discovering answers to their own questions.

## Learning How to Learn:

- Interpret articles from relevant science journals.

## Course Description

This course will include an introduction to cells, histology, biochemistry, and homeostasis. In addition, the following systems will be discussed: integumentary, skeletal, muscle, nervous, and special senses. Lecture will be accompanied by lab work and applications, which will stress the anatomy, histology and function of these organ systems. Group 1 lab course. It is highly recommended that students have college level reading skills. Students enrolling in BIO 227 who have not completed these requirements should plan on additional study time.

## Credit Hours

4

## Contact Hours

6

## Lecture Hours

4

## Required Prerequisites

MTH 111 and ENG 111/111 or ENG 111 both may be taken concurrently

## Corequisites

BIO 227L

## Recommended Prerequisites or Skills Competencies

CHM 101, HAH 101, and completion of any 100-level Biology course. It is highly recommended that students have college level reading skills. Students enrolling in BIO 227 who have not completed these requirements should plan on additional study time.

## General Education Outcomes supported by this course

Quantitative Reasoning

## Course Learning Outcomes

### Knowledge:

- Apply key concepts, terms, and relationships by explaining how homeostasis underlies all the body's physiological processes.

### Application:

- Use the scientific problem solving process to make decisions.
- Develop the ability to use quantitative reasoning within the discipline of AP.

### Integration:

- Articulate the relationships between form and function of the human body.
- Link the knowledge learned in this course to real-life situations.

### Human Dimension:

- Discuss complex physiological processes with lay people.
- Work effectively as a team member.

### Caring - Civic Learning: