



## Honors Anatomy & Physiology Curriculum

This course develops an in-depth understanding of the structure and function of one's body, as well as prepares students for the rigors of college level programs in medical/health-related fields. The curriculum reinforces the basic concepts of science, such as homeostasis, and provides the students with an overview of major biological principles. Examples of information included in the course are advanced anatomical and medical terminology, various types of tissues, and detailed anatomy & physiology for each of the various organ systems in the human body. Students need to be focused, self-motivated learners with a strong work ethic.

By the end of Honors Anatomy & Physiology, students will meet the following standards:

### Basic Anatomy & Physiology:

- Know basic & specific anatomical terms
- Understand cellular and chemical processes
- Understand homeostatic mechanisms

### Knowledge of Organ Systems:

- Know types of cells & organs involved
- Understand functions of system and individual organs
- Understand how organ systems are all interdependent
- Know common diseases and disorders of each organ system

### Organ Systems Covered:

- Integumentary
- Skeletal
- Muscular
- Nervous
- Endocrine
- Cardiovascular
- Lymphatic
- Respiratory