

# Anatomy & Physiology

This one semester course is for students that have completed an introductory course in Biology and would like to gain greater knowledge of Anatomy and Physiology. This course is a good foundation for anyone interested in entering the fields of: EMT/paramedic, nursing, medical technology, sports training, physical therapy, chiropractic and medicine. Upon completion of the class the students will have a detailed understanding of the structure and function of the human body and will be eligible to be certified in CPR/AED.

**Textbook:** Hole's Essentials of Human Anatomy & Physiology, 10<sup>th</sup> edition.

**Required Supplies:** A large spiral notebook and folder or a loose-leaf binder.

**Grading:** All tests and quizzes are based on class notes and handouts. It is required that note be taken each day and notebooks will be checked periodically and graded. Quizzes will be in the form of multiple choice and free response questions, matching, identification and labeling.

## Class Syllabus:

### Unit 1 - Levels of Organization

- Chemicals of Life
- Cells
- Cellular Metabolism
- Tissues & Organs

### Unit 2 – Support and Movement

- Integumentary System
- Skeletal System
- Muscular System

### Unit 3 – Integration and Coordination

- Nervous System
- Senses
- Endocrine System

### Unit 4 – Transport

- Blood
- Cardiovascular System
- Lymphatic System
- CPR/AED Training

**Unit 5 – Absorption and Excretion**

Digestive System  
Respiratory System  
Urinary System  
Water Balance

**Unit 6 – Human Reproduction**

Reproductive System  
Pregnancy, Growth and Development

Throughout this class the NYS Common Core Learning Standards in Science are followed to enhance the students overall understanding of Anatomy And Physiology.