

# Anatomy & Physiology Syllabus

## **Course Description/Goals:**

Anatomy and Physiology is designed for students interested in biological, medical, and health oriented programs. Students will study the structures and functions of the human body. The body's systems will be investigated as to the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. The topics will be presented through an integration of biology, chemistry, and physics. In this laboratory course, the students conduct laboratory investigations, perform dissections, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. This course satisfies a high school science graduation requirement and will be included in the calculation of the weighted GPA.

## **Course TEKS/Objectives:**

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

<https://tea.texas.gov/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch127j.pdf>

## **Course Outline:**

Semester 1	Semester 2
-Foundations of Anatomy -Processes of Life -Histology -Skeletal System -Muscular System -Nervous System - Endocrine System	-Digestive System -Urinary System -Integumentary System - Lymphatic System -Immune System -Reproductive System

- Cardiovascular System
- Respiratory System

- Pregnancy, Fetal Growth & Development
- Biotechnology