

12th Grade Anatomy and Physiology Syllabus

Course Description

Anatomy and Physiology is an advanced science course designed to give students a comprehensive understanding of the structure and function of the human body. This course covers all major body systems and emphasizes the relationships between structure and function, homeostasis, and the mechanisms of disease. Students will engage in lab investigations, dissections, clinical applications, and research activities. The course aligns with the TEKS for Anatomy and Physiology (130.206).

1. Scientific and Medical Practices

- Safety in the laboratory and clinical settings
- Professional ethics and communication
- Research and evidence-based practices

2. Structure and Function of the Human Body

- Anatomical terminology and body organization
- Planes, directions, and cavities
- Tissues and membranes

3. Body Systems and Their Interactions

- For each system: anatomy, physiology, and diseases/disorders
- Integumentary System
- Skeletal System
- Muscular System
- Nervous and Special Senses
- Endocrine System
- Cardiovascular System
- Respiratory System
- Digestive System
- Urinary System
- Reproductive System

4. Homeostasis and Feedback Mechanisms

- Maintaining balance within body systems
- Effects of injury, illness, and disease

5. Medical Terminology and Technology Applications

- Use of medical vocabulary
- Diagnostic and treatment technologies

Grading Policy

Category

Weight

Tests & Projects - 40%
Daily Assignments - 20%

Supplies Needed

Composition book
Binder
Pens/pencils