

## Public Service Pathway – Emergency Medical Technician



### PRINCIPLES OF HEALTH SCIENCE

**KISD #:** 927018      **PEIMS:** 13020200  
**Grades:** 9-11      **1.0 Credit**  
**Prerequisite:** Biology I or Concurrent Enrollment

Students will gain knowledge and skills related to the health care industry. Content relates to patient relationships, working environments, and ethical and legal responsibilities. Entry-level skills will also be developed for taking vital signs, maintaining safety, and performing first aid and CPR. Introduction to basic human anatomy and physiology and medical terminology will prepare the student for a transition to clinical experiences in health care.

**Optional Certification:** CPR

### MEDICAL TERMINOLOGY

**KISD #:** 927818      **PEIMS:** 13020300  
**Grades:** 10-12      **1.0 Credit**  
**Prerequisite:** Principles of Health Science  
**Note:** Principles of Health Science may be taken concurrently for students in grades 10-11

Students will develop a working knowledge of the language of medicine and acquire word-building skills by learning prefixes, suffixes, word roots, abbreviations, and acronyms. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

### PHARMACOLOGY

**KISD #:** 926718      **PEIMS:** 13020950  
**Grades:** 11-12      **1.0 Credit**  
**Prerequisite:** Principles of Health Science  
**Recommended Prerequisite:** Medical Terminology  
**Note:** Principles of Health Science may be taken concurrently for students in grade 11

Students will study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

### ANATOMY & PHYSIOLOGY

**KISD #:** 927118      **PEIMS:** 13020600  
**Grades:** 11-12      **1.0 Credit/Science Credit Option**  
**Prerequisite:** Biology I and Chemistry I

Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students will also analyze the relationship between anatomical structures and physiological functions of the human systems. This course is also listed in the Science Section of the Guidance Handbook.

**Advanced Grade Points:** Yes

### **ANATOMY AND PHYSIOLOGY DUAL CREDIT**

**KISD #:** 9271DC18      **PEIMS:** 13020600  
**Grades:** 11-12      **1.0 Credit/Science Credit Option**  
**Prerequisite:**      **Biology I and Chemistry I**

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Students will conduct laboratory investigations/fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving to study the structure and function of the human body. Emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the integumentary, skeletal, muscular, and nervous systems. Designed primarily for students entering health careers. This course is also listed in the Science section of the Catalog.

**Advanced Grade Points:**    Yes  
**Dual Credit Correlation:**    BIOL 2401  
**Required Fee/Materials:**    Yes

### **PRACTICUM IN HEALTH SCIENCE**

#### **EMERGENCY MEDICAL TECHNICIAN (EMT)**

**KISD #:** 927618      **PEIMS:** 13020500  
**Grades:** 12      **2.0 Credits**  
**Prerequisite:**      **Principles of Health Science and  
Medical Terminology and  
Anatomy and Physiology**

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**Recommended Prerequisite: Pharmacology**

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Students will gain knowledge and skills related to patient assessment, spinal immobilization, trauma management, treatment of medical emergencies, and mechanical aids to breathing. Participation requires an additional seventy-two (72) hours of ambulance experience. The student must be at least eighteen (18) years of age by April 1, be CPR and First Aid certified, have a current TB skin test, influenza vaccination and documentation of additional health screening / status. Student tuitions, uniform, blood pressure cuff, stethoscope, trauma scissors, penlight, and safety glasses are required.

**Required Fee/Materials:**    Yes  
**Advanced Grade Points:**    Yes  
**Transportation Needed:**    Yes  
**Approval Process:**        Yes  
**Industry Certification:**    Emergency Medical Technician