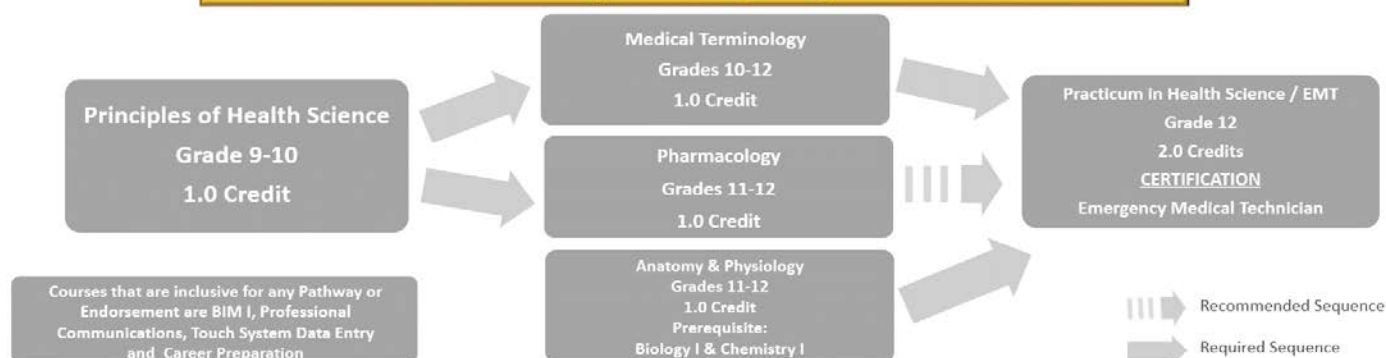


## Public Service Pathway – Emergency Medical Technician



### PRINCIPLES OF HEALTH SCIENCE

**KISD #:** 927018

**PEIMS:** 13020200

**Grades:** 9-11

**1.0 Credit**

**Prerequisite:** Biology I or Concurrent Enrollment

Are you interested in medical and associated health careers? This course provides an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares students for the transition to clinical and/or work-based experiences available in the advanced health science courses.

**Industry 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**

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**

**Recommended Prerequisite:** Pharmacology

**Age Requirement:** Student must be 18 years of age on or before May 1, 2021. Students who do not meet the age requirement may submit the interest form for consideration of acceptance if space is available.

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 twenty-four (24) hours of ambulance experience, twelve (12) hours of emergency room observation, four (4) hours in the communication center and eight (8) hours for extrication day event. The student must submit documentation for the following: (1) current TB skin test, (2) ten panel drug screening, (3) influenza vaccination, (4) physical examination and (5) documentation of current/updated immunizations. Student tuition fee will be due at the beginning of the school year. Student uniform, blood pressure cuff, stethoscope, trauma scissors, penlight, and safety glasses are required prior to contact with patients.

Additional requirements or changes in printed requirements are subject to change due to agreements with partnering EMT agencies.

**Required Fee/Materials:** Yes

**Advanced Grade Points:** Yes

**Transportation Needed:** Yes

**Approval Process:** Yes

**Industry Certification:** Emergency Medical Technician