Students at FHS have an opportunity to participate in CTE courses in the Health Science Division! Currently, we offer an introductory health science course and 3 dual enrollment classes with TCAT Pulaski for students interested in the field of healthcare.

Department: CTE- Health Science Division

Course Credit: This is the introductory course within health science.

Recommended grade level: 9th-12th

Course Description:

Health Science is a course in which students will identify the different types of facilities and options for health care delivery in the United States. Students will create a report and/or presentation highlighting a variety of modalities. We will review an in-depth evaluation of the following health care fields:

- **biotechnology research**
- **therapeutic services**
- **support services**
- **health informatics**
- **diagnostic services**

Additionally we explore the roles and responsibilities of the healthcare professional along with detailed research on the educational and technological training requirements. In addition, students analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated by each individual.

Dual Enrollment courses offered are listed below.

Diagnostic Medicine- EKG

Department: CTE- Health Science Division

Course Credit: This course is used as a dual credit course with an EKG certification.

Recommended grade level: 9th-12th

Course Description:

Students will also compare and contrast the educational requirements of each cardiovascular career within allied health.

Investigate cardiac diagnostic procedures both in-hospital and out-patient and identify the equipment required for these services.

Create an infographic to identify gross heart anatomy and physiology and related cardiac conduction and circulatory pathways.

Assess lead placements and correlate their relationship to the conduction system through the use of a diagram or model. Analyze the **P,Q,R,S,T complex** and its correlation to the cardiac cycle.

Anatomy & Physiology and Medical Terminology

Department: CTE- Health Science Division

Course Credit: This course is a dual credit course that provides the foundational terminology, anatomy, and physiology.

Recommended grade level: 9th-12th

Course Description: This course in which students will identify common medical terms and anatomical structures necessary for health care delivery in the United States is essential to success for anyone pursuing a field in healthcare. Anatomy and Physiology is a comprehensive course designed to provide students with a detailed understanding of the structure and function of the human body. This class will uncover terminology associated with various organ systems within the human body. We include a study of the integumentary, skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems .

A&P is integrated!

Anatomy and Physiology is a comprehensive course designed to provide students with a detailed understanding of the structure and function of the human body. Students will demonstrate knowledge of descriptive medical terminology as well as an in-depth evaluation of etymology. An expanded awareness of word origin, word roots, prefixes, and suffixes will also be explored throughout the course.

Medical Assisting

Department: CTE- Health Science Division

Course Credit: This course is a dual credit course that includes a Medical Assisting- MA certification upon completion.

Recommended grade level: 11th-12th

Course Description: Medical assistants are allowed to perform any clinical tasks delegated by a physician, with the exception of procedures requiring a Tennessee Department of Health license. Tennessee law does not require medical assistants to be certified; however, certification provides additional employment opportunities.

- **Clinical Duties:** Measuring vital signs, assisting with patient exams, administering medications, and performing basic lab tests.
- **Administrative Tasks:** Managing electronic health records, scheduling appointments, handling insurance paperwork, and communicating with patients.
- ***Patient Care*:** Preparing patients for exams, explaining medical procedures, and providing support during treatments.

Medical assistants are versatile professionals, making them valuable in various healthcare environments.

Students will develop skills including but not limited to: Medical lab, clinical procedures, Pharmacology, Front office procedures, Medical insurance/coding, and Professional communication.