

# Health Science Career Cluster

Revised—June 2024



The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.



## Endorsement: **Public Service** Statewide Program of Study: **Healthcare Therapeutic -EMT**

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



### Secondary Courses for High School Credit

- 9<sup>th</sup> Grade  Principles of Health Science (Level 1)
- 10<sup>th</sup> Grade  Medical Terminology (Level 2)
- 11<sup>th</sup> Grade  Health Science Theory (Level 3)  
 Elective Science: Anatomy and Physiology – (Level 3)
- 12<sup>th</sup> Grade  Practicum in Health Science + Extended Practicum in Health Science EMT (Level 4) (KCC)  
 Elective Science: Pathophysiology - (Level 4)



### Example Postsecondary Opportunities

#### Apprenticeships

- Medical Assistant

#### Associate Degrees

- Emergency Medical Technology
- Radiologic Technology/Science

#### Bachelor's Degrees

- Emergency Medical Technology
- Medical Insurance Coding

#### Master's, Doctoral, and Professional Degrees

- Medicine
- Occupational Therapy

#### Additional Stackable IBCs/License

- Registered Diagnostic Medical Sonographer



A CTE Completer is a student who completes three or more CTE courses for four or more credits including one Level 3 or 4 (advanced level) CTE course within a program of study will fulfill the requirements of a Business and Industry Endorsement.

### Aligned Industry-Based Certifications

- Emergency Medical Technician Basic
- Certified EKG Technician



### Work-Based Learning and Expanded Learning Opportunities

#### Work-Based Learning Activities

- Intern with a medical assistant at a community clinic, hospital, assisted living, or long-term care facility
- Participate in job shadowing experiences such as Emergency Medical Services (EMS) ride along or hospital/clinical job

#### Expanded Learning Opportunities

- Participate in Health Occupation Students of America (HOSA) or SkillsUSA
- Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event

### NAVIANCE ACCESS

All Killeen ISD students (7<sup>th</sup> – 12<sup>th</sup> graders) should login to their Naviance account through Clever.

Log into Naviance by clicking the Clever logo or link and use the College SuperMatch Tool to find colleges offering degree plans in this field.

<https://clever.com/in/killeenisd>



### Example Aligned Occupations

#### Medical Assistants

Median Wage: \$36,834  
Annual Openings: 11,638  
10-Year Growth: 29%

#### Dental Hygienists

Median Wage: \$79,663  
Annual Openings: 1,352  
10-Year Growth: 32%

#### Physician Assistants

Median Wage: \$127,332  
Annual Openings: 974  
10-Year Growth: 41%

Emergency Medical Technician

Data Source: Texas Wages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>



# Health Science Career Cluster

## Endorsement: *Public Service*

### Statewide Program of Study: *EMT*

### Course Information



IT IS IN THE BEST INTEREST OF THE STUDENT TO TAKE ALL COURSES BELOW IN EACH GRADE

Level 1 9 <sup>th</sup> Grade	Course	Prerequisites   Corequisites	Career Clusters
	Principles of Health Science* 13020200 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Level 2 10 <sup>th</sup> Grade	Course	Prerequisites   Corequisites	Career Clusters
	Medical Terminology* 13020300 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Level 3 11 <sup>th</sup> Grade	Course	Prerequisites   Corequisites	Career Clusters
	Anatomy and Physiology* 13020600 (1 credit)	Prerequisites: One credit in Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics Corequisites: None Recommended Prerequisites: A course from the Health Science career cluster Recommended Corequisites: None	
	Health Science Theory + 13020410 (2 credits)	Prerequisites: One credit in Biology and at least one credit in a course from the Health Science career cluster Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Level 4 12 <sup>th</sup> Grade	Course	Prerequisites   Corequisites	Career Clusters
	Practicum in Health Science + Extended Practicum in Health Science* EMT 13020515 (3 credits)	Prerequisites: Health Science Theory and Biology Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
	Pathophysiology* 13020800 (1 credit)	Prerequisites: One credit in Biology, one credit in Chemistry, and at least one credit in a Level 2 or higher course from the Health Science career cluster Corequisites: None Recommended Prerequisites: Anatomy and Physiology Recommended Corequisites: None	

\* Indicates course is included in more than one program of study.

See your school counselor to connect with a military recruiter for career counseling and to take the ASVAB in high school.

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