

Health Science Career Cluster

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.



Revised-June 2024

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

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



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Work-Based Learning and Expanded Learning Opportunities	

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

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Expanded Learning

Opportunities

I Services (EMS) ride along or hospital/clinical job

- 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 (7th – 12th 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 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



Example Aligned Occupations

Medical Assistants

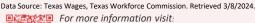
Median Wage: \$36,834 Annual Openings: 11,638 10-Year Growth: 29%

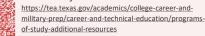
Dental Hygienists

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%





Health Science Career Cluster

Endorsement: Public Service Statewide Program of Study: EMT



Course Information

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

Principles of Health Science* 13020200 (1 credit) Course	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	6 0 -
Course		
	Prerequisites Corequisites	Career Clusters
Medical Terminology* 13020300 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
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	
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	
	13020300 (1 credit) Course Anatomy and Physiology* 13020600 (1 credit) Health Science Theory + 13020410 (2 credits) Course Practicum in Health Science + Extended Practicum in Health Science* EMT 13020515 (3 credits) Pathophysiology* 13020800 (1 credit) * Indicates course is included in more th	13020300 (1 credit)Recommended Prerequisites: None Recommended Corequisites: NoneCoursePrerequisites: One credit in Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics Corequisites: NoneAnatomy 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: NoneHealth Science Theory + 13020410 (2 credits)Prerequisites: One credit in Biology and at least one credit in a course from the Health Science Corequisites: None Recommended Prerequisites: NoneCoursePrerequisites: None Recommended Corequisites: None Recommended Corequisites: None Recommended Corequisites: None Recommended Prerequisites: NonePracticum in Health Science * Extended Practicum in Health Science * EMT 13020515 (3 credits)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: NonePathophysiology* 13020800 (1 credit)Prerequisites: One credit in Biology, one credit in a level 2 or higher course from the Health Science career cluster Corequisites: None Recommended Prerequisites: Anatomy and Physiology

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

Killeen ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Rhea Bell, Title IX Coordinator, 902 N. 10th St., Killeen, TX 76541, 254-336-2822, <u>Rhea.bell@killeenisd.org</u>. Further nondiscrimination information can be found at <u>Notification of Nondiscrimination in Career and Technical Education Programs</u>.