

# 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 - Pharmacology**

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  | <input type="checkbox"/> Principles of Health Science (Level 1)  |
| 10 <sup>th</sup> Grade | <input type="checkbox"/> Medical Terminology (Level 2)   |
| 11 <sup>th</sup> Grade | <input type="checkbox"/> Health Science Theory (Level 3)<br><input type="checkbox"/> Elective Science: Anatomy and Physiology - (Level 3)  |
| 12 <sup>th</sup> Grade | <input type="checkbox"/> Pharmacology (KCC) (Level 4)<br><input type="checkbox"/> Practicum in Health Science I - Pharmacology (KCC) (Level 4)<br><input type="checkbox"/> Elective Science: Pathophysiology – (KCC) (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

- Certified Pharmacy 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 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

### Pharmacy Technician

Median Wage: \$35,110  
Annual Openings: 3,990  
10-Year Growth: 19%

### Medical & Clinical Laboratory Technologists

Median Wage: \$51,400  
Annual Openings: 2,270  
10-Year Growth: 16%

### Pharmacist

Median Wage: \$130,110  
Annual Openings: 1,240  
10-Year Growth: 10%

Pharmacology

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>

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, [Rhea.Bell@killeenisd.org](mailto:Rhea.Bell@killeenisd.org). Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).



# Health Science Career Cluster

Endorsement: *Public Service* Statewide Program of Study  
*Diagnostic and Therapeutic Services - Pharmacology*



## Course Information

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

Level 1  
9<sup>th</sup> Grade

Course	Prerequisites   Corequisites	Career Clusters
<b>Principles of Health Science*</b> 13020200 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

Level 2  
10<sup>th</sup> Grade

Course	Prerequisites   Corequisites	Career Clusters
<b>Medical Terminology*</b> 13020300 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

Level 3  
11<sup>th</sup> Grade

Course	Prerequisites   Corequisites	Career Clusters
<b>Anatomy and Physiology*</b> 13020600 (1 credit)	<b>Prerequisites:</b> One credit in Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> A course from the Health Science career cluster <b>Recommended Corequisites:</b> None	
<b>Health Science Theory</b> 13020400 (1 credit)	<b>Prerequisites:</b> One credit in Biology and at least one credit in a course from the Health Science career cluster <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

Level 4  
12<sup>th</sup> Grade

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Health Science Pharmacology</b> First Time Taken: 13020505 (2 credits)	<b>Prerequisites:</b> Health Science Theory and Biology <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Pathophysiology*</b> 13020800 (1 credit)	<b>Prerequisites:</b> 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 <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Anatomy and Physiology <b>Recommended Corequisites:</b> 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.