

# 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. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

## Statewide Program of Study: Diagnostic and Therapeutic Services (EMT/EKG)

The Diagnostic 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

**Level 1** • Principles of Health Science

**Level 2** • Medical Terminology

**Level 3** • Health Science Theory  
• Anatomy and Physiology

**Level 4** • Practicum in Health Science I  
• Practicum in Health Science II  
• Pathophysiology

## Aligned Advanced Academic Courses

<b>AP or IB</b>	AP Biology IB Biology SL IB Biology HL	AP Chemistry IB Chemistry SL IB Chemistry HL
<b>Dual Credit</b>	Dual credit offerings will vary based on Local Education Agency.	

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

## Work-Based Learning and Expanded Learning Opportunities

<b>Work-Based Learning Activities</b>	<ul style="list-style-type: none"> <li>Intern with a medical assistant at a community clinic, hospital, assisted living or long-term care facility</li> <li>Participate in job shadowing experiences such as Emergency Medical Services (EMS) ride along, hospital/clinical job shadow</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event</li> <li>Participate in SkillsUSA, BPA, or Health Occupation Students of America (HOSA)</li> </ul> <p>HOSA provides a unique program of leadership development, motivation and recognition to attract career-minded, qualified students to health care professions. HOSA students develop essential knowledge and skills that prepare them to explore and pursue a career in health care. Students compete at the regional, state, and national levels in Skills Assessment Program events, engage in community and leadership service activities, and meet students across the state and country through participation in our programs.</p>

## Aligned Industry-Based Certifications

- ECG Technician
- Emergency Medical Technician–Basic



## Example Postsecondary Opportunities



### Apprenticeships

- Medical Assistant

### Associate Degrees

- Emergency Medical Technology
- Radiologic Technology/Science

### Bachelor’s Degrees

- Emergency Medical Technology
- Medical Insurance Coding Specialist

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

- Medicine
- Occupational Therapy

### Additional Stackable IBCs/Licensures

- Registered Diagnostic Medical Sonographer



## Example Aligned Occupations

### Medical Assistants

Median Wage: \$13,191  
Annual Openings: 13,191  
10-Year Growth: 25%

### Clinical Laboratory Technologists and Technicians

Median Wage: \$48,497  
Annual Openings: 2,369  
10-Year Growth: 16%

### Physician Assistants

Median Wage: \$120,841  
Annual Openings: 1,022  
10-Year Growth: 40%

Data Source: Lightcast™. (2022). Occupation Table. Retrieved 9/27/2022.



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

Statewide Program of Study: *Diagnostic and Therapeutic Services*

## Course Information

Level 1

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

Level 2

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

Level 3

Course	Prerequisites   Corequisites	Career Clusters
<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>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	

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Health Science I</b> First Time Taken: 13020500 (2 credits)	<b>Prerequisites:</b> Health Science Theory and Biology <b>Corequisites:</b> None	
<b>Practicum in Health Science II</b> Second Time Taken: 13020510 (2 credits)	<b>Prerequisites:</b> Health Science Theory and Biology <b>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	

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

For additional information on the **Health Science Career Cluster**, contact [cte@tea.texas.gov](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>

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