

# 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.



## Diagnostic and Therapeutic Services- Clinical Certified Medical Assistant (JHS) Statewide Program of Study



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

Level 1	T601 Principles of Therapeutic Healthcare (1 credit/YL)
Level 2	T604 Medical Terminology (1 credit/YL)
Level 3	T615 Health Science Theory and Clinical (1 credits/YL)
Level 4	T616 Practicum in Health Science-Certified Clinical Medical Assistant (CCMA) (3 credits /YL) T405 Anatomy & Physiology (1 credit/YL) T404 Pathophysiology (1 credit/YL)



### 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



### 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 or hospital/clinical job</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>• Participate in Health Occupation Students of America (HOSA) or SkillsUSA</li> <li>• Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event</li> </ul>



### Aligned Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified EKG Technician
- Phlebotomy Technician



### 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%

Diagnostic and Therapeutic Services –  
Clinical Certified Medical Assistant

Data Source: TexasWages, 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>

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## Diagnostic and Therapeutic Services- Patient Care Technician (JHS) Statewide Program of Study



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

Level 1	T601 Principles of Therapeutic Healthcare (1 credit/YL)
Level 2	T604 Medical Terminology (1 credit/YL)
Level 3	T615 Health Science Theory and Clinical (1 credits/ YL)
Level 4	T602 Practicum in Health Science- Patient Care Technician (3 credits /YL) T405 Anatomy & Physiology (1 credit/YL) T404 Pathophysiology (1 credit/YL)



### 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



### 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 or hospital/clinical job</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>• Participate in Health Occupation Students of America (HOSA) or SkillsUSA</li> <li>• Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event</li> </ul>



### Aligned Industry-Based Certifications

- Patient Care Technician
- Certified EKG Technician
- Phlebotomy Technician



### Example Aligned Occupations

#### Medical Assistants

Median Wage: \$36,834  
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Diagnostic and Therapeutic Services - Patient Care Technician

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