

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.

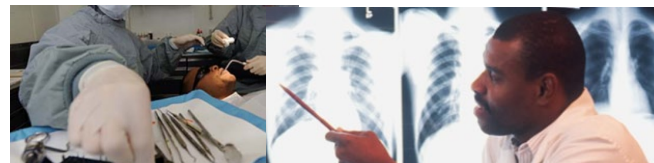
Statewide Program of Study: *Diagnostic and Therapeutic Services*

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	<ul style="list-style-type: none"> Principles of Health Science Principles of Diagnostic Healthcare Principles of Therapeutic Healthcare Principles of Allied Health Introduction to Dental Science Introduction to Imaging Technology Introduction to Pharmacy Science
Level 2	<ul style="list-style-type: none"> Medical Terminology Allied Health Therapeutic Services Dental Anatomy and Physiology Disaster Response Imaging Technology I Pharmacy I
Level 3	<ul style="list-style-type: none"> Anatomy and Physiology Medical Microbiology Medical Assistant Emergency Medical Technician—Basic Clinical Ethics Dental Equipment and Procedures Health Science Theory Health Science Theory + Health Science Clinical Respiratory Therapy I Imaging Technology II Pharmacy II
Level 4	<ul style="list-style-type: none"> Mathematics for Medical Professionals Pathophysiology Pharmacology Respiratory Therapy II Optical Technician Practicum in Health Science Practicum in Health Science + Extended Practicum in Health Science Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation



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

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

Aligned Industry-Based Certifications

- | | |
|---|--|
| <ul style="list-style-type: none"> Certified Cardiographic Technician Certified Dental Assistant Certified EKG Technician Certified Nurse Aide (CNA) Certified Occupational Therapy Assistant Licensed Dental Hygienist EKG Technician Emergency Care Attendant (ECA) Emergency Medical Technician - Basic Limited Medical Radiologic Technologist (LMRT) | <ul style="list-style-type: none"> Medical Assistant Medical Laboratory Assistant Medical Laboratory Technician Patient Care Technician Pharmacy Technician Phlebotomy Technician Registered Dental Assistant (RDA) Registered Dental Assistant X-Ray Certification Respiratory Therapist |
|---|--|



Example Aligned Occupations

Medical Assistants

Median Wage: \$37,568
Annual Openings: 11,247
10-Year Growth: 29%

Dental Hygienists

Median Wage: \$89,155
Annual Openings: 1,047
10-Year Growth: 32%

Physician Assistants

Median Wage: \$131,082
Annual Openings: 887
10-Year Growth: 41%

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/hs-diagnostic-and-therapeutic-services-extended.pdf>