

# 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.

## Healthcare Diagnostics Statewide Program of Study



The Healthcare Diagnostics program of study introduces students to occupations and education opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Health Science

#### Level 2

- Medical Terminology (MDCA1313/NURA1307)

#### Level 3

- Health Science Theory/Clinical (HPRS1105/MDCA1317)
- Anatomy and Physiology

#### Level 4

- Medical Microbiology
- Practicum in Health Science

### Postsecondary Opportunities

#### Associates Degrees

- Nuclear Medical Technology/Technologist
- Magnetic Resonance Imaging (MRI) Technology/Technician

#### Bachelor's Degrees

- Nuclear Medical Technology/Technologist
- Medical Radiologic Technology/Science Radiation Therapist

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

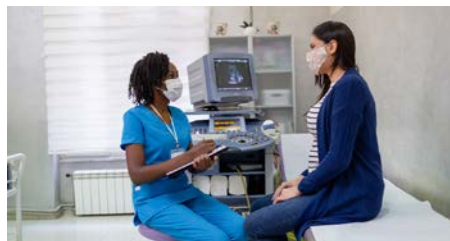
- Radiologist
- Radiologic Technology/Science Radiographer

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Participate in Health Occupation Students of America</li> </ul>	<ul style="list-style-type: none"> <li>Perform clinical rotations at a community wellness center, hospital, assisted living, nursing home</li> </ul>

### Industry-Based Certifications

- Certified EKG Technician
- OSHA-10 for Healthcare Providers
- Bloodborne Pathogens
- AHA CPR



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Diagnostic Medical Sonographers	\$69,909	495	35%
Phlebotomist	\$30,597	1,442	36%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1,196	21%
Magnetic Resonance Imaging Technologists	\$68,661	217	21%

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – August 2022

# Healthcare Diagnostics Course Information

## Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	None

## Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology (MDCA1313/NURA1307)	13020300 (1 credit)	None	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Health Science Theory/Clinical (HPRS1105/MDCA1317)	13020410 (2 credits)	Biology	None
Anatomy and Physiology	13020600 (1 credit)	Biology and a second science credit	None

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Microbiology	13020700 (1 credit)	Biology and Chemistry	None
Practicum in Health Science	13020500 (2 credits)	Health Science Theory and Biology	None

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER,  
PLEASE CONTACT: [CTE@tea.texas.gov](mailto:CTE@tea.texas.gov)  
<https://tea.texas.gov/cte>

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