

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.

Diagnostic & Therapeutic Services Statewide Program of Study



The Diagnostic and Therapeutic Services program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as 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 (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

- Dental Hygienist
- Surgical Technician
- Medical Lab Technology
- Respiratory Therapy
- Nuclear Medical Technology/Technologist
- Magnetic Resonance Imaging (MRI) Technology/Technician

Bachelor's Degrees

- Public Health
- Respiratory Therapy
- Health Educator
- Radiologic Technology

Master's, Doctoral, and Professional Degrees

- Radiologist Technology
- Master of Science Dentistry
- Physician Assistant
- Family and General Practitioners
- Pharmaceutical
- Physician

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Health Occupation Students of America

Work-Based Learning Activities

- Perform clinical rotations at a community wellness center, hospital, assisted living, nursing home

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%
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%

Successful completion of the Diagnostic & Therapeutic 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
<https://tea.texas.gov/cte>

Mabank ISD does not discriminate on the basis of race, color, national origin, sex, disability or age 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: Mr. Clay Tracy, Assistant Superintendent of Human Resources, 310 E. Market Street, Mabank, TX 75147, 903-880-1305.

Further nondiscrimination information can be found at
[Notification of Nondiscrimination in Career and Technical Education Programs.](#)