



# 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: **Nursing Science**

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.

### Secondary Courses for High School Credit

- |                |  |
|----------------|--|
| <b>Level 1</b> | <ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>   |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Medical Terminology (MDCA1313/NURA1307)*</li> </ul>   |
| <b>Level 3</b> | <ul style="list-style-type: none"> <li>Anatomy and Physiology</li> <li>Practicum in Health Science –CNA (NURA1401/NURA1160, HPRS 1105)*</li> <li>*TVCC CNA/OSA</li> </ul>                                  |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Medical Microbiology</li> <li>Practicum in Nursing (MDCA1348, MDCA1352/MDCA1160, MDCA1317, MDCA1254)*</li> <li>*TVCC Certified Med Assistant Certificate</li> </ul> |

### Aligned Advanced Academic Courses

AP	AP Biology	AP Chemistry
<b>Dual Credit</b>	MDCA1313 Medical Terminology NURA1307 Body Systems NURA1401 Nurse Aide for Health Care NURA1160 Clinical, Nursing Assistant/Aide and Patient Care Asst/Aide HPRS1105 Essentials of Medical Law/Ethics for Health Professionals MDCA1348 Pharmacology & Administration of Medications MDCA1352 Medical Assistant Laboratory Procedures MDCA1160 Clinical - Medical/Clinical Assistant MDCA1317 Procedures in a Clinical Setting MDCA1254 Medical Assisting Credentialing Exam Review	

### 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, or assisted living facility</li> <li>Conduct informational interviews with nurses in different departments and healthcare settings</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>Volunteer at community clinics, hospitals, assisted living and long-term care facilities</li> <li>Participate in HOSA</li> </ul>

### Aligned Industry-Based Certifications

- Certified Nurse Aide (CNA)
- Certified Clinical Medical Assistant

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.

Successful completion of the Nursing Science program of study will fulfill requirements of STEM endorsement if the math and science requirements are met or the Public Services endorsement.



### Example Postsecondary Opportunities

#### Apprenticeships

- Registered Nurse Resident

#### Associate Degrees

- Medical Assisting
- Vocational Nursing

#### Bachelor's Degrees

- Registered Nursing
- Nursing Administration

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

- Nursing Administration
- Nursing Science

#### Additional Stackable IBCs/License

- Certified Emergency Nurse



### Example Aligned Occupations

#### Nursing Assistants

Median Wage: \$35,110  
Annual Openings: 13,501  
10-Year Growth: 15%

#### Licensed Practical and Licensed Vocational Nurses

Median Wage: \$57,007  
Annual Openings: 5,831  
10-Year Growth: 17%

#### Registered Nurses

Median Wage: \$85,108  
Annual Openings: 16,904  
10-Year Growth: 17%

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-nursing-science-extended.pdf>