



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

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| Level 1 | <ul style="list-style-type: none"> Principles of Health Science |
| Level 2 | <ul style="list-style-type: none"> Medical Terminology (MDCA1313/NURA1307)* |
| Level 3 | <ul style="list-style-type: none"> Anatomy and Physiology Practicum in Health Science –CNA (NURA1401/NURA1160, HPRS 1105)* *TVCC CNA/OSA |
| Level 4 | <ul style="list-style-type: none"> Medical Microbiology Practicum in Nursing (MDCA1348, MDCA1452/MDCA1260, MDCA1317, MDCA1254)* *TVCC Certified Med Assistant Certificate |

Aligned Advanced Academic Courses

AP	AP Biology	AP Chemistry
Dual Credit	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 MDCA1452 Medical Assistant Laboratory Procedures MDCA1260 Clinical - Medical/Clinical Assistant MDCA1317 Procedures in a Clinical Setting MDCA1254 Medical Assisting Credentialing Exam Review	

Students should be advised to consider these course opportunities to enrich their preparation. AP courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	<ul style="list-style-type: none"> Intern with a medical assistant at a community clinic, hospital, or assisted living facility Conduct informational interviews with nurses in different departments and healthcare settings
Expanded Learning Opportunities	<ul style="list-style-type: none"> Volunteer at community clinics, hospitals, assisted living and long-term care facilities Participate in HOSA or SkillsUSA

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: \$30,856
Annual Openings: 10,936
10-Year Growth: 15%

Licensed Practical and Licensed Vocational Nurses

Median Wage: \$50,913
Annual Openings: 6,865
10-Year Growth: 17%

Registered Nurses

Median Wage: \$79,831
Annual Openings: 16,207
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/programs-of-study-additional-resources>