

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 Principles of Nursing Science |
| Level 2 | <ul style="list-style-type: none"> Science of Nursing Medical Terminology |
| Level 3 | <ul style="list-style-type: none"> Health Science Theory Health Science Theory + Health Science Clinical Anatomy and Physiology Medical Microbiology Leadership and Management in Nursing Clinical Ethics |
| Level 4 | <ul style="list-style-type: none"> Pathophysiology Pharmacology Practicum in Nursing 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 |

Work-Based Learning and Expanded Learning Opportunities

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| 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

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| <ul style="list-style-type: none"> Certified Nurse Aide (CNA) Certified Personal Care Assistant Licensed Vocational Nurse Medical Assistant | <ul style="list-style-type: none"> Nursing Assistant Certification (NAC) Patient Care Technician Phlebotomy Technician Registered Nurse |
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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>