

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

Level 1 • Principles of Health Science

Level 2 None

Level 3 • Health Science Theory
• Anatomy and Physiology

Level 4 • Pathophysiology
• Practicum in Health Science I
• Practicum in Health Science II

Aligned Advanced Academic Courses

| | | |
|--------------------|--|------------------------------------|
| AP or IB | AP Biology | AP Chemistry |
| | IB Biology SL IB Biology HL | IB Chemistry SL IB Chemistry HL |
| Dual Credit | Dual credit offerings will vary by Local Education Agency. | |

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB 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 & long-term care facilities Participate in SkillsUSA or HOSA HOSA provides a unique program of leadership development, motivation and recognition to attract career-minded, qualified students to health care professions. HOSA students develop essential knowledge and skills that prepare them to explore and pursue a career in health care. Students compete at the regional, state, and national levels in Skills Assessment Program events, engage in community and leadership service activities, and meet students across the state and country through participation in our programs. |

Aligned Industry-Based Certifications

- Certified Nurse Aide (CNA)
- Medical Assistant
- Phlebotomy Technician

Successful completion of the Nursing Science program of study will fulfill requirements of the 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/Clinical Assistant
- Nursing Administration

Bachelor's Degrees

- Registered Nursing
- Licensed Practical/Vocational Nurse Training

Master's, Doctoral, and Professional Degrees

- Nursing Administration
- Nursing Science

Additional Stackable IBCs/Licensures

- Registered Nurse



Example Aligned Occupations

Nursing Assistants

Median Wage: \$29,400
Annual Openings: 13,757
10-Year Growth: 16%

Licensed Practical and Licensed Vocational Nurses

Median Wage: \$48,500
Annual Openings: 6,745
10-Year Growth: 13%

Registered Nurses

Median Wage: \$77,259
Annual Openings: 17,342
10-Year Growth: 15%

Data Source: Lightcast™. (2022). Occupation Table. Retrieved 9/27/2022.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>



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Statewide Program of Study: *Nursing Science*

Course Information

| | Course | Prerequisites Corequisites | Career Clusters |
|---------|--|---|-----------------|
| Level 1 | Principles of Health Science* 13020200 (1 credit) | Prerequisites: None Corequisites: None | |
| | Level 2 | | |
| Level 3 | Health Science Theory* 13020400 (1 credit) | Prerequisites: one credit in Biology and at least one credit in a course from the Health Science Career Cluster Corequisites: None | |
| | Anatomy and Physiology 13020600 (1 credit) | Prerequisites: one credit in Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics Corequisites: None | |
| Level 4 | Pathophysiology* 13020800 (1 credit) | Prerequisites: one credit in Biology, one credit in Chemistry, and at least one credit in a Level 2 or higher course from the Health Science Career Cluster Corequisites: None | |
| | Practicum in Health Science I* First Time Taken: 13020500 (2 credits) | Prerequisites: Health Science Theory and Biology Corequisites: None | |
| | Practicum in Health Science II* Second Time Taken: 13020510 (2 credits) | Prerequisites: Health Science Theory and Biology Corequisites: None | |

* Indicates course is included in more than one program of Study.

For additional information on the **Health Science Career Cluster**, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>

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