

# 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.

## Nursing Science Statewide Program of Study



The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Health Science

#### Level 2

- Medical Terminology

#### Level 3

- Medical Microbiology
- Anatomy and Physiology

#### Level 4

- Pathophysiology
- Pharmacology
- Practicum in Health Science—Clinical Nursing Assistant

### Postsecondary Opportunities

#### Associates Degrees

- Registered Nursing/Registered Nurse

#### Bachelor's Degrees

- Informatics Nurse Specialists

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

- Nurse Practitioner
- Nursing Administration
- Nurse Anesthetist

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in Health Occupation Students of America

#### Work-Based Learning Activities

- Volunteer at a community wellness center, hospital, assisted living center, or nursing home

### Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified Nurse Aide (CNA)
- Certified Patient Care Technician (CPCT)
- Licensed Vocational Nurse
- Medical Assistant
- Patient Care Technician
- Phlebotomy Technician
- Registered Nurse



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%
Nurse Anesthetists	\$154,856	357	23%

Successful completion of the Nursing Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised—August 2022

# Nursing Science Course Information

## Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	None
Principles of Nursing Science	N1302109 (1 credit)	None	None

## Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology	13020300 (1 credit)	None	None
Science of Nursing	N1302129 (1 credit)	None	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Microbiology	13020700 (1 credit)	Biology and Chemistry	None
Anatomy and Physiology	13020600 (1 credit)	Biology and a second science credit	None
Clinical Ethics	N1302121 (1 credit)	None	None
Leadership and Management in Nursing	13021225 (1 credit)	Biology, Chemistry, and 1 credit in a course from the Health Science Career Cluster	None

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Pathophysiology	13020800 (1 credit)	Biology and Chemistry	None
Pharmacology	13020950 (1 credit)	Biology and Chemistry	None
Practicum in Nursing (TBD)	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER,  
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<https://tea.texas.gov/cte>

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