

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 (MDCA1313/NURA1307)

Level 3

- Anatomy and Physiology
- Practicum in Health Science - CNA (HPRS1105 & NURA1401/NURA1160, HPRS 1105)

Level 4

- Advanced Medical Microbiology
- Practicum in Nursing I - CCMA (MDCA1348, MDCA1452/MDCA1160, MDCA1317, MDCA1254)

Postsecondary Opportunities

Associates Degrees

- Registered Nursing/Registered Nurse

Bachelor's Degrees

- Registered Nursing/Registered Nurse

Master's, Doctoral, and Professional Degrees

- Nurse Practitioner
- Nursing Administration
- Nurse Anesthetist
- Nurse Midwife
- Doctor of Nursing

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 Nurse Aide (CNA)
- Certified Clinical Medical Assistant (CCMA)
- Certified Patient Care Technician (CPCT)

- Bloodborne Pathogens
- AHA CPR



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

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology (MDCA1313/NURA1307)	13020300 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Anatomy and Physiology	13020600 (1 credit)	Biology and a second science credit	None
Practicum in Health Science (NURA1401/ NURA1160, HPRS1105)	13020500 (2 credits)	Health Science Theory and Biology	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Advanced Medical Microbiology	13020700 (1 credit)	Biology and Chemistry	None
Practicum in Nursing I (MDCA1348, MDCA1452/ MDCA1160, MDCA1317, MDCA1254)	13021230 (2 credits)	Biology, Chemistry, level 2 course in POS	None

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

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Further nondiscrimination information can be found at
[Notification of Nondiscrimination in Career and Technical Education Programs.](#)