



Principles of Health Science

Level 1

Medical Terminology

Level 2

Medical Microbiology
Anatomy and Physiology

Level 3

Pathophysiology

Level 4

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Medical Assistant	Licensed Vocational Nurse	Registered Nursing/ Registered Nurse	Informatics Nurse Specialists	Nurse Practitioner
Certified Nurse Aide/Assistant				Nursing Administration
Certified Patient Care Technician				Nurse Anesthetist

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%

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

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.



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.

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 - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE & COURSE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Health Science	13020200 / 8200 (1 credit)	None	10-12
Medical Terminology	13020300 / 8205 (1 credit)	None	9-12
Medical Microbiology	13020700 / 8213 (1 credit)	PREQ: Biology and Chemistry Rec: Principles of Health Science and/or Medical Terminology	10-12
Anatomy and Physiology	13020600 / 2960 (1 credit)	PREQ: Biology and Chemistry	10-12
Pathophysiology	13020800 / 8214 (1 credit)	PREQ: Biology and Chemistry Rec: Principles of Health Science and/or Medical Terminology	10-12

BISD Recommended Course Sequence

Grade	9 th Year	10 th Year	11 th Year	12 th Year
Courses	Medical Terminology	Principles of Health Science	Medical Microbiology and/or Anatomy & Physiology	Pathophysiology