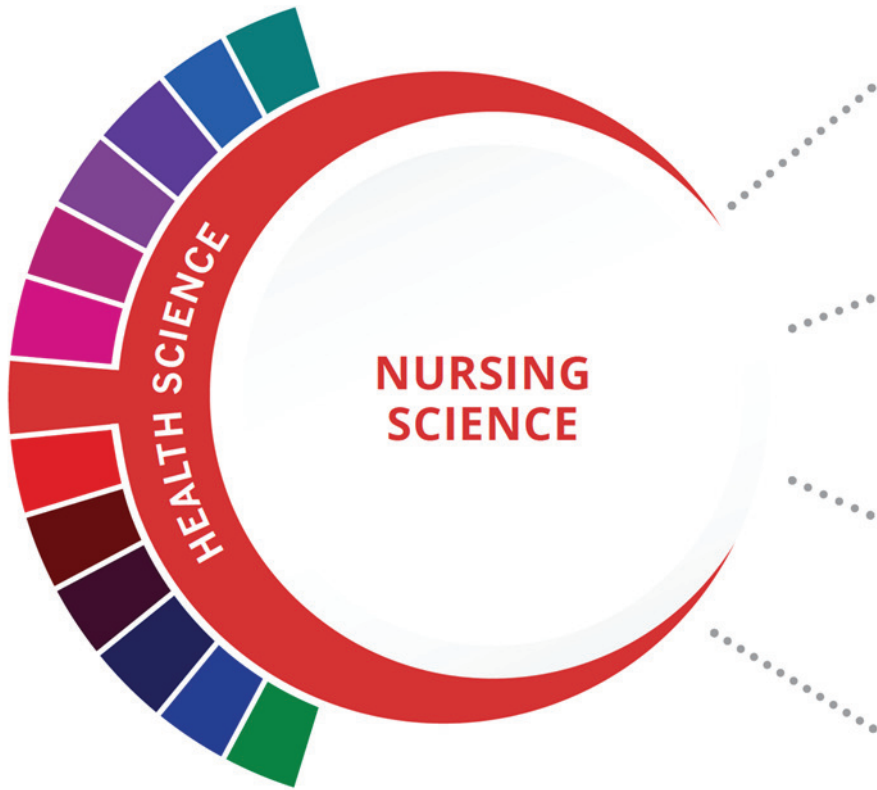


SCHOOL OF HEALTH SCIENCE

JACK E. SINGLEY ACADEMY



✦ Identifies a course as ADVANCED.



Principles of Health Science
[74561/2 PRINHLS 13020200]

Credit: 1 **And**

Level 1

Medical Terminology
[74571/2 MEDTERM 13020300]

Credit: 1

Health Science Theory
[79901/2 HHLSCIN 13020410]

Level 2

Credit: 2 **And**

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Pathophysiology
[36141/2 PATHO 13020800]

Level 3

Credit: 1

**Practicum in Health Science-
Nursing**
[74611/2 PRACHLS1 13020500]

Level 4

Credit: 2


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%

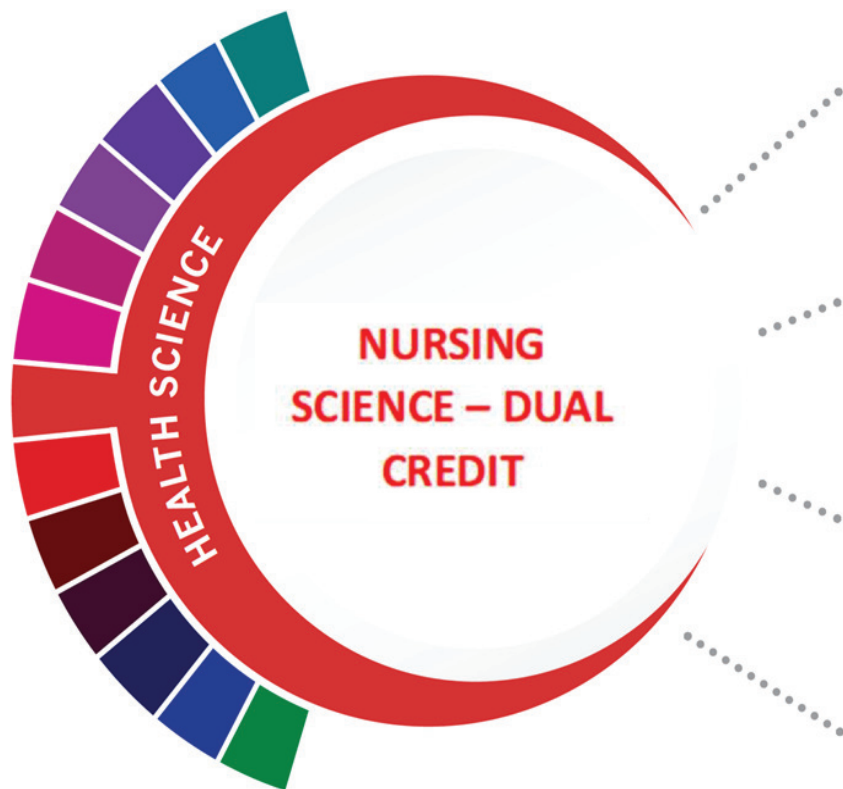
Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

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.

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



Principles of Health Science
[74561/2 PRINHLS 13020200]
Credit: 1

And

Level 1 **Medical Terminology-HITT 1305**
[78281/2 MEDTERM H/DC 13020300]

Credit: 1

Health Science Theory Honors Dual Credit HPRS 2302
[78291/2 HLSCLIN H/DC 13020410]

Level 2 Credit: 2 **And**

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Pathophysiology Honors Dual Credit
[35371/2 PATHO/DC 13020800]

Level 3

Credit: 1

Practicum in Health Science II HPRS 2210 Honors Dual Credit
[78351/2 PRACHLS2 13020510]

Level 4 Credit: 2 **Or**

Scientific Research and Design II Dual Credit
[36241/2 SCIRD2 13037210]

Credit: 1


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%

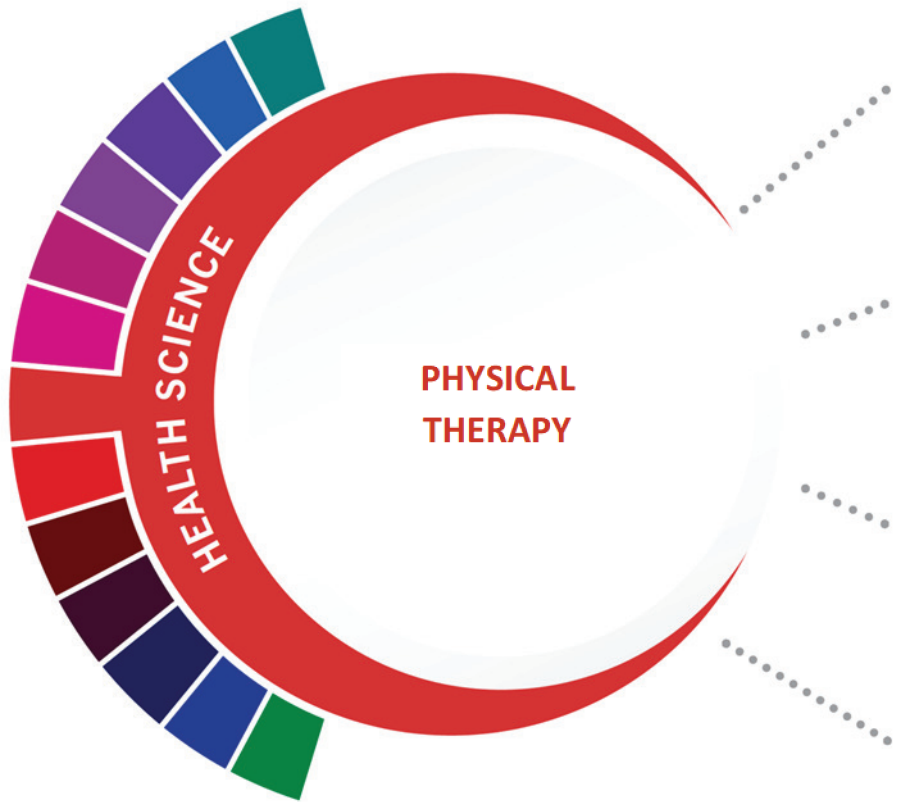
Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

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Principles of Health Science
[74561/2 PRINHLS 13020200]

Credit: 1 **And**

Level 1

Medical Terminology
[74571/2 MEDTERM 13020300]

Credit: 1

Health Science Theory
[74581/2 HLSCLIN 13020400]

Credit: 1 **And**

Level 2

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Practicum in Health Science
(Physical Therapy)
[74611/2 PRACHLS1 13020500]

Level 3

Credit: 2

Practicum in Health Science II
(Physical Therapy)
[74711/2 PRACHLS2 13020510]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certification in Orthopedic Manual Therapy	Certified Respiratory Therapist	Occupational Therapy Assistant	Respiratory Therapists	Occupational Therapists
Limited Licensed Radiology Technologist	Certified Physical Therapy Assistant	Radiation Therapists		Speech Language Pathologist
		Respiratory Therapists		Physical Therapists
		Physical Therapy Assistant		

Occupations	Median Wage	Annual Openings	% Growth
Speech Language Pathologists	\$73,070	1,068	25%
Respiratory Therapists	\$57,429	830	20%
Occupational Therapists	\$92,227	834	34%
Physical Therapy Assistants	\$70,200	1,268	44%
Radiation Therapists	\$70,658	101	23%

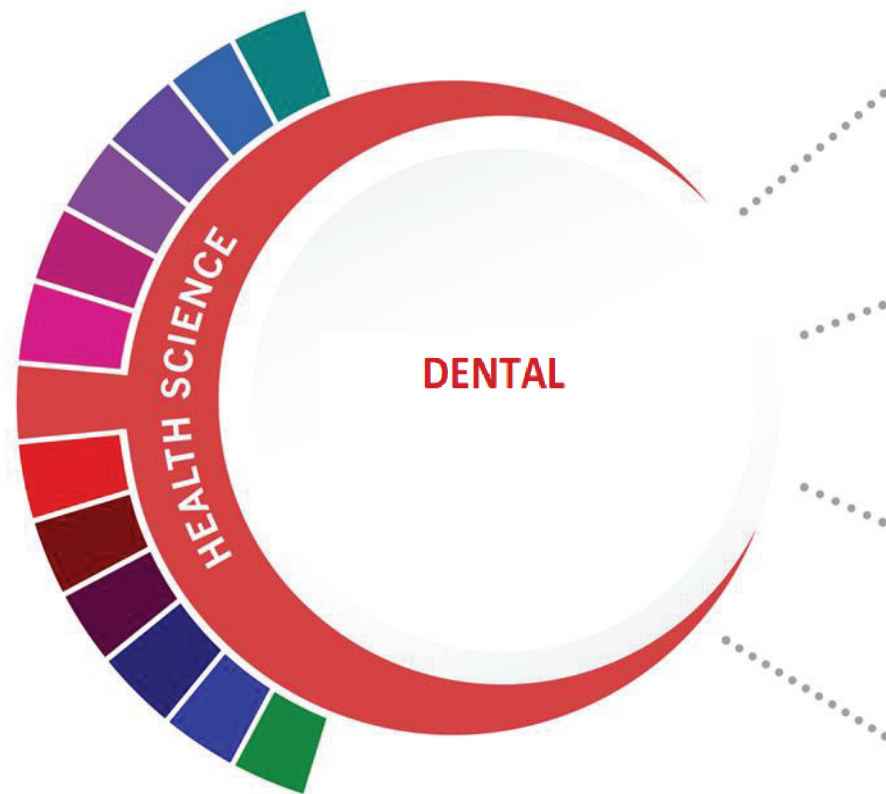
Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Lab internship, Job shadow, Clinical rotations

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.

The Medical Therapy program of study focuses on the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field in occupations such as, Respiratory, Occupational, Physical, or Speech Therapy. CTE learners may also practice patient care and communication.



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.



Principles of Health Science
[74561/2 PRINHLS 13020200]

Credit: 1 **And**

Level 1

Medical Terminology
[74571/2 MEDTERM 13020300]

Credit: 1

Health Science Theory (Dental)
[78391/2 HLSCLIN 13020410]

Level 2

Credit: 2 **And**

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Practicum in Health Science I (Dental)
[74631/2 PRACHL1 13020500]

Level 3

Credit: 2

Practicum in Health Science II (Dental)
[74511/2 PRACHLS2 13020510]

Level 4

Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Registered Dental Assistant	Dental Assistant	Dental Hygienist	Dental Hygienist	Dentist
Certified Patient Care Technician	Surgical Technologist	Medical/Clinical Assistant		Physician Assistant
Certified Nurse Aide/Assistant	Medical Assistant			Family and General Practitioners
Pharmacy Technician	Pharmacy Aides			Pharmacist

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%
Dental Assistants	\$34,840	4,422	31%

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

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.

The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



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 Healthcare Therapeutic 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



Principles of Health Science
[74561/2 PRINHLSC 13020200]

Credit: 1 **And**

Level 1

Medical Terminology
[74571/2 MEDTERM 13020300]

Credit: 1

Health Science Theory EMT
[79901/2 HHLSClin 13020410]

Level 2

Credit: 2 **And**

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Emergency Medical Technician
[79891/2 EMTB N1303015]

Level 3

Credit: 1 **And**

Practicum in Health Science (EMT)
[78411/2 PRACHLS1 13020500]

Credit: 2

Practicum in Health Science II-Honors Dual Credit
[78421/2 PRACHLS1 13020505]

Level 4

Credit: 3

Scientific Research and Design II-Honors Dual Credit
[36241/2 SCIRD2 13037210]

Credit: 1

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Emergency Medical Technician - Basic	Emergency Medical Technician - Basic	Emergency Medical Technology/Technician (EMT Paramedic)	Emergency Medical Technology/Technician (EMT Paramedic)	
Emergency Telecommunicator	Fire Protection Personnel/Firefighter	Fire Prevention and Safety Technology/Technician	Natural Resources Law Enforcement and Protective Services	
Basic Structure Fire Protection Certification	Fire Protection System Contractor	Fire Science/Firefighting		

Occupations	Median Wage	Annual Openings	% Growth
Firefighters	\$50,149	2,309	13%
Fire Inspectors and Investigators	\$54,787	161	14%
Emergency Medical Technicians	\$34,091	1,880	31%

Exploration Activities:	Work Based Learning Activities:
Attend local emergency awareness events, Texas Public Service Association	Volunteer at a hospital or a fire station

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.

The Emergency Services program of study focuses on training CTE learners to respond to emergency situations, such as medical emergencies and fire-based emergencies. Students will learn how to prevent emergencies, respond appropriately and in accordance with rules and regulations during crises, and investigate and delineate the source of the emergency.

 The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.