

GRADUATION ENDORSEMENT

Public Service

Nowhere has the impact of technology had more far-reaching impact than in the cluster of Health Science careers. Nor is there a cluster that offers more variety of entry level and high level professional careers—and hundreds of career choices in between. Major hospitals today are huge cities with amenities ranging from janitorial services, shipping and receiving, food services, building maintenance, communications, data collection, and computer technology. Areas in need of skilled employees include laboratory, therapy, pharmacy, and research. Many professionals are needed to support the medical specialists—dietitians, research scientists, medical doctors, psychologists, and psychiatrists. All the skills students can learn in this cluster will help them and their families live better, healthier, and longer lives. It is a career cluster that will always be in demand.

POSSIBLE CAREER PATHS WITHIN THIS CAREER CLUSTER

Biological Technician, Radiology Technician, Healthcare Administrator, Environmental Scientist, Emergency Medical Technician, Nurse, Physician, Clinical Lab Scientist, Nutritionist, Medical Records, Dentist, Psychiatrist, Pharmacist, and Speech Language Pathologist

Programs of Study offered at Wylie High School:

- Exercise Science and Wellness
- Health Informatics
- Healthcare Therapeutic

Meet the Teachers



Donna Lang

Lex Ann Hood

Kathryn Gay

Brian Stuart



Laura Vinson

DeeDee Baker

Teela Locker



- Lifetime Nutrition and Wellness

- Level 1**

- Level 2**

- Anatomy and Physiology

- Level 3**

- Career Preparation I

- Level 4**

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Certified Personal Trainer	Physical Therapist Assistant	Kinesiology and Exercise Science	Kinesiology and Exercise Science	Exercise Physiology
	Physical Therapy Aides	Therapeutic Recreation/Recreational Therapy	Therapeutic Recreation/Recreational Therapy	Therapeutic Recreation/Recreational Therapy
	Dietetic Technician	Athletic Training/Trainer	Athletic Training/Trainer	Athletic Training/Trainer
			Dietitians and Nutritionists	Physical Therapist

Occupations	Median Wage	Annual Openings	% Growth
Athletic Trainers	\$53,450	215	22%
Exercise Physiologists	\$41,662	33	33%
Coaches and Scouts	\$40,010	2,133	23%
Dietitians and Nutritionists	\$57,762	428	24%
Recreational Therapists	\$45,906	74	24%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a hospital or rehabilitation center; manage a school sports team

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.

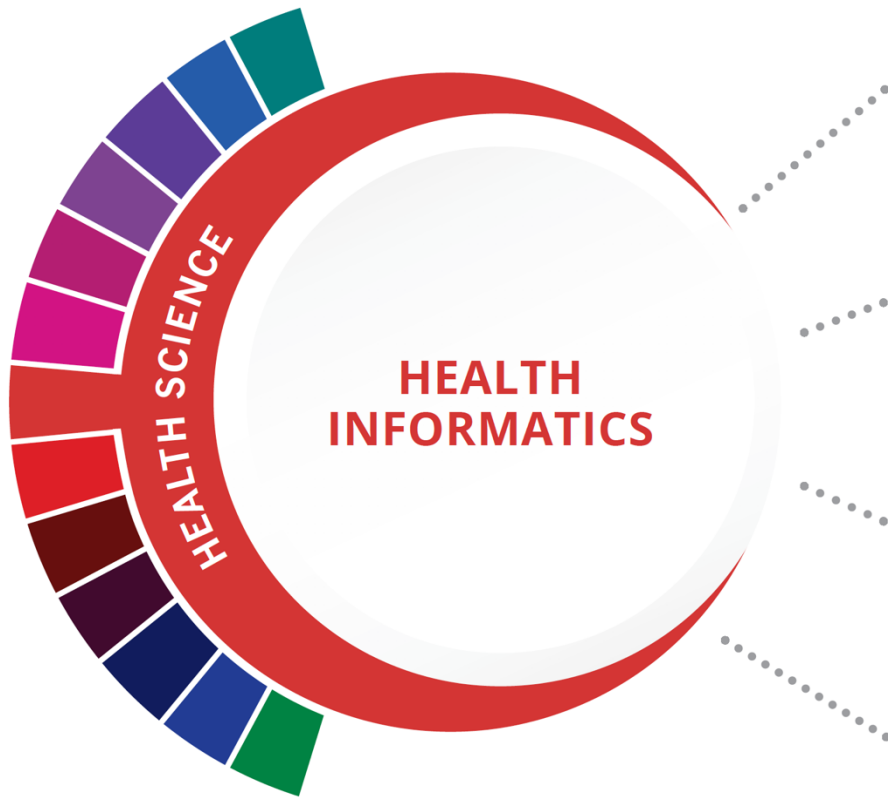
The Exercise Science and Wellness program of study introduces CTE learners to the fields that assist patients with maintaining physical, mental, and emotional health. Students will research diet and exercise needed to maintain a healthy, balanced lifestyle and learn about and practice techniques to help patients recover from injury, illness, or disease.



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 Exercise Science and Wellness 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
Medical Terminology

Level 1

Business Information Management
I

Level 2

Level 3

Level 4

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Coding Associate	Certified Professional in Informatics	Health Information/ Medical Records Technology/ Technician	Medical and Health Service Managers	Medical and Health Service Managers
Medical Coding and Billing Specialist	Medical Transcriptionist			

Occupations	Median Wage	Annual Openings	% Growth
Medical Records and Health Information Technicians	\$35,922	1,588	24%
Medical and Health Service Managers	\$93,995	2,562	29%
Billing and Posting Clerks	\$35,485	5,775	25%

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 Occupations Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home

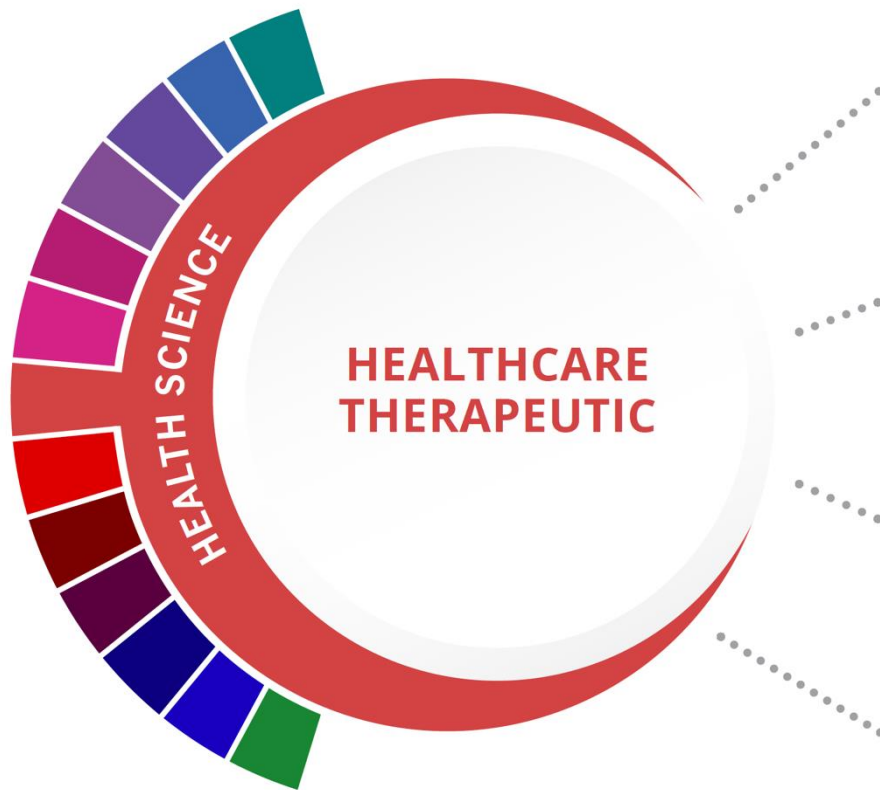
The Health Informatics program of study focuses on exposing students to the management and use of patient information in the healthcare field. Students may learn about and research recent modifications of computerized healthcare and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students may also practice writing and interpreting medical reports.



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Successful completion of the Health Informatics 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





Level 1

Medical Terminology

Level 2

Anatomy and Physiology
Health Science Theory

Level 3

Practicum in Health Science – CNA Program

Level 4

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%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

