

# Public Services Endorsement

## CAREER CLUSTER

## PROGRAMS OF STUDY



HEALTH INFORMATICS

HEALTHCARE DIAGNOSTICS

HEALTHCARE THERAPEUTIC

Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for Perkins V federal accountability reporting.





## HEALTH INFORMATICS

### POSTSECONDARY OPTIONS



LEVEL 1

**COURSES**  
Principles of Health Science  
Medical Terminology



LEVEL 2

Business Information Management I



LEVEL 3

Health Informatics



LEVEL 4

Mathematics for Medical Professionals

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Certified Medical Billing and Coding	Medical Transcriptionist				Medical Records and Health Information Technicians	\$35,922	1,588	24%
Certified Coding Associate	Certified Professional in Informatics	Health Information/ Medical Records Technology/ Technician	Medical and Health Service Managers		Medical and Health Service Managers	\$93,995	2,562	29%
					Billing and Posting Clerks	\$35,485	5,775	25%
					<b>WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</b>			
					<b>Exploration Activities:</b> HOSA SkillsUSA	<b>Work Based Learning Activities:</b> Job shadow a healthcare professional Volunteer at a hospital, Assisted Living, or nursing home		
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.								
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								

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.



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 Health Informatics program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Business Information Management Systems I	13011400 (1 credit)	None	9-12
Health Informatics	13020960 (1 credit)	<b>PREQ:</b> BIM I and Medical Terminology	11-12
Mathematics for Medical Professionals	13020970 (1 credit)	<b>PREQ:</b> Geometry and Algebra II	11-12

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson/Kevin.Johnson@tea.texas.gov

<https://tea.texas.gov/cte>

<http://www.donnaisd.net/Community/Graduation-Plans>



**COURSES**  
Principles of Health Science



Medical Terminology



Health Science Theory  
Medical Microbiology



Anatomy/Physiology  
Pathophysiology  
Practicum in Health Science

**POSTSECONDARY OPTIONS**

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
*Certified EKG/ECG Technician	Radiologic Technologist	Magnetic Resonance Imaging (MRI) Technology/ Technician	Medical Radiologic Technology/ Science/ Radiation Therapist	Radiologic Technology/ Science – Radiographer
*Phlebotomy Technician				
Limited Licensed Radiology Technologist	Medical Sonographer	Nuclear Medical Technology/ Technologist		Radiologist
Medical Laboratory Technician				
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
EKG/ECG Technicians	\$50,880	400	21%
Phlebotomists	\$30,597	1,442	36%
Diagnostic Medical Sonographers	\$69,909	495	35%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1,196	19%
MRI Technologists	\$68,661	217	21%

**WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES**

**Exploration Activities:** HOSA, SkillsUSA, Tour a healthcare Facility

**Work Based Learning Activities:** Job shadow a healthcare professional, Volunteer at a hospital, Assisted Living, or nursing home

The Healthcare Diagnostics program of study introduces students to occupations and educational opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology, and ultrasonic technology.



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 Diagnostics program of study will fulfill requirements of the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Health Science Theory	13020400 (1 credit)	<b>PREQ:</b> Biology	10-12
Medical Microbiology	13020700 (1 credit)	<b>PREQ:</b> Biology and Chemistry	10-12
Anatomy/Physiology	13020600 (1 credit)	<b>PREQ:</b> Biology and a second science credit	10-12
Pathophysiology	13020800 (1 credit)	<b>PREQ:</b> Biology and Chemistry	10-12
Practicum in Health Science/Extended Practicum in Health Science	13020505 (3 credits)	<b>PREQ:</b> Biology, Health Science Theory	11-12

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson/Kevin.Johnson@tea.texas.gov

<https://tea.texas.gov/cte>

<http://www.donnaisd.net/Community/Graduation-Plans>



**COURSES**  
Principles of Health Science



Medical Terminology



Health Science Theory  
Medical Microbiology  
Anatomy/Physiology



Pathophysiology  
Pharmacology  
Practicum in Health Science

**POSTSECONDARY OPTIONS**

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
*Certified Pharmacy Technician	Pharmacy Aides	Biology		Pharmacist
*Certified Nurse Aide/Nurse Assistant	Surgical Technologist	Science, Pre-Med		Family and General Practitioner
*Certified Clinical Medical Assistant	Registered Dental Assistant	Dental Hygienist	Science, Pre-Dental	Dentist
Certified Patient Care Technician	Registered Dental Assistant			Physician Assistant
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical Assistants	\$29,598	8,862	30%
Dental Hygienists	\$73,507	1,353	38%
Surgical Technologists	\$48,420	1,150	20%
Pharmacists	\$127,020	1,320	15%

**WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES**

**Exploration Activities:**  
HOSA  
SkillsUSA

**Work Based Learning Activities:**  
Job shadow a healthcare professional  
Volunteer at a hospital, Assisted Living, or nursing home

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 the Public Services Endorsement – Approved Statewide Programs of Study – September 2019.



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Health Science	13020200 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Health Science Theory	13020400 (1 credit)	<b>PREQ:</b> Biology	10-12
Medical Microbiology	13020700 (1 credit)	<b>PREQ:</b> Biology and Chemistry	10-12
Anatomy/Physiology	13020600 (1 credit)	<b>PREQ:</b> Biology and a second science credit	10-12
Pharmacology	13020950 (1 credit)	<b>PREQ:</b> Biology and Chemistry	11-12
Pathophysiology	13020800 (1 credit)	<b>PREQ:</b> Biology and Chemistry	11-12
Practicum in Health Science	13020500 (2 credits)	<b>PREQ:</b> Biology, Health Science Theory	11-12
Practicum in Health Science/Extended Practicum in Health Science	13020505 (3 credits)		

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson/Kevin.Johnson@tea.texas.gov

<https://tea.texas.gov/cte>

<http://www.donnaisd.net/Community/Graduation-Plans>