

**Local Implementation Considerations:**

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.

Proposed Indicator: 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 federal accountability reporting.



## COURSES

- LEVEL 1**  
Lifetime Nutrition and Wellness  
Principles of Exercise Science and Wellness (TBD)

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- LEVEL 2**  
Kinesiology I (TBD)

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- LEVEL 3**  
Anatomy and Physiology  
Kinesiology II (TBD)

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- LEVEL 4**  
Practicum in Entrepreneurship (TBD)  
Project Based Research  
Career Preparation I

## POSTSECONDARY OPTIONS

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

| 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%      |
| Medical and Health Service Managers | \$57,762    | 428             | 24%      |
| Recreational Therapists             | \$45,906    | 74              | 24%      |

### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

#### Exploration Activities:

Health Occupation Students of America (HOSA)

#### Work Based Learning Activities:

Volunteer at a hospital or rehabilitation center; manage a school sports team

The Exercise Science and Wellness program of study introduces students 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 the Public Service Endorsement.

Approved Statewide Program of Study - September 2019



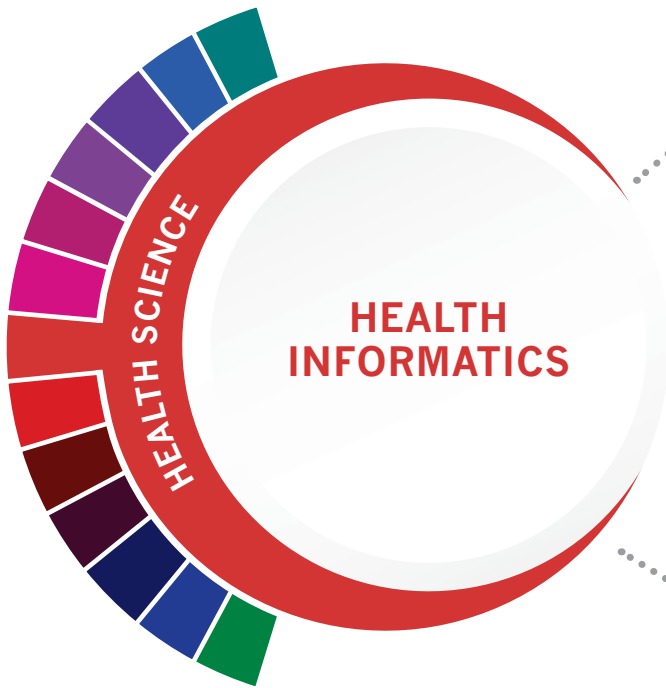
# COURSE INFORMATION

| COURSE NAME                         | SERVICE ID                                   | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ)                                                | GRADE |
|-------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------|-------|
| Lifetime Nutrition and Wellness     | 13024500 (.5 credit)                         | None                                                                                       | 9-12  |
| Principles of Exercise and Wellness | TBD                                          | TBD                                                                                        | TBD   |
| Kinesiology I                       | TBD                                          | TBD                                                                                        | TBD   |
| Anatomy and Physiology              | 13020600 (1 credit)                          | PREQ: Biology and a second science credit; RPREQ: a course from the Health Science cluster | 10-12 |
| Kinesiology II                      | TBD                                          | TBD                                                                                        | TBD   |
| Practicum in Entrepreneurship       | TBD                                          | TBD                                                                                        | TBD   |
| Project-Based Research              | 12701500 (1 credit)                          | None                                                                                       | 11-12 |
| Career Preparation I                | 12701300 (2 credits)<br>12701305 (3 credits) | None                                                                                       | 11-12 |
|                                     |                                              |                                                                                            |       |
|                                     |                                              |                                                                                            |       |
|                                     |                                              |                                                                                            |       |

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

Kevin Johnson | [Kevin.Johnson@tea.texas.gov](mailto:Kevin.Johnson@tea.texas.gov)

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



## COURSES

- LEVEL 1**  
Principles of Health Science  
Medical Terminology  
Principles of Health Informatics (TBD)

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- LEVEL 2**  
Business Information Management I/Lab  
Medical Intervention Evaluation and Research (TBD)

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- LEVEL 3**  
Health Informatics  
Healthcare Information Systems and Management (TBD)

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- LEVEL 4**  
Mathematics for Medical Professionals  
World Health Research  
Project-Based Research

## POSTSECONDARY OPTIONS

| 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 Coding and Billing Specialist | Medical Transcriptionist              |                                                          |                                     |                                       |
|                                       |                                       |                                                          |                                     |                                       |
|                                       |                                       |                                                          |                                     |                                       |

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](http://TXCTE.org).

| OCCUPATIONS                                        | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|----------------------------------------------------|-------------|-----------------|----------|
| Medical Records and Health Information Technicians | \$35,922    | 1,588           | 24%      |
| Medical and Health Service Managers                | \$57,762    | 428             | 24%      |
| Billing and Posting Clerks                         | \$35,485    | 5,775           | 25%      |

### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
Health Occupations Students of America (HOSA)

**Work Based Learning Activities:**  
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.



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 Service Endorsement.  
Approved Statewide Program of Study - September 2019



# COURSE INFORMATION

| COURSE NAME                                   | SERVICE ID                                  | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ)                     | GRADE |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|-------|
| Principles of Health Science                  | 13020200 (1 credit)                         | None                                                            | 9-10  |
| Medical Terminology                           | 13020300 (1 credit)                         | None                                                            | 9-12  |
| Principles of Health Informatics              | TBD                                         | TBD                                                             | TBD   |
| Business Information Management I/Lab         | 13011400 (1 credit)<br>13011410 (2 credits) | None                                                            | 9-12  |
| Medical Intervention and Evaluation           | TBD                                         | TBD                                                             | TBD   |
| Health Informatics                            | 13020960 (1 credit)                         | PREQ: Business Information Management I and Medical Terminology | 11-12 |
| Healthcare Information Systems and Management | TBD                                         | TBD                                                             | TBD   |
| Mathematics for Medical Professionals         | 13020970 (1 credit)                         | PREQ: Geometry and Algebra II                                   | 11-12 |
| World Health Research                         | 13020900 (1 credit)                         | PREQ: Biology and Chemistry                                     | 11-12 |
| Project-Based Research                        | 12701500 (1 credit)                         | None                                                            | 11-12 |
|                                               |                                             |                                                                 |       |
|                                               |                                             |                                                                 |       |
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## COURSES

### LEVEL 1

Principles of Health Science  
Principles of Diagnostic Healthcare (TBD)  
Introduction to Imaging Technology (TBD)

### LEVEL 2

Medical Terminology  
Imaging Technology I (TBD)

### LEVEL 3

Health Science Theory  
Medical Microbiology  
Imaging Technology II (TBD)

### LEVEL 4

Anatomy and Physiology  
Pathophysiology  
Practicum in Health Science

## POSTSECONDARY OPTIONS

| HIGH SCHOOL/<br>INDUSTRY<br>CERTIFICATION        | CERTIFICATE/<br>LICENSE*   | ASSOCIATE S<br>DEGREE                                            | BACHELOR S<br>DEGREE                                                | MASTER S/<br>DOCTORAL<br>PROFESSIONAL<br>DEGREE        |
|--------------------------------------------------|----------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| Limited<br>Licensed<br>Radiology<br>Technologist | Medical<br>Sonographer     | Nuclear Medical Technology/<br>Technologist                      |                                                                     | Radiologist                                            |
| EKG/ ECG<br>Technician                           | Radiologic<br>Technologist | Magnetic<br>Resonance Imaging<br>(MRI) Technology/<br>Technician | Medical Radiologic<br>Technology/<br>Science Radiation<br>Therapist | Radiologic<br>Technology/<br>Science -<br>Radiographer |
| Medical<br>Laboratory<br>Technician              |                            |                                                                  |                                                                     |                                                        |
| Phlebotomy<br>Technician                         |                            |                                                                  |                                                                     |                                                        |

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](http://TXCTE.org).

| OCCUPATIONS                                       | MEDIAN<br>WAGE | ANNUAL<br>OPENINGS | %<br>GROWTH |
|---------------------------------------------------|----------------|--------------------|-------------|
| Diagnostic<br>Medical<br>Sonographers             | \$69,909       | 495                | 35%         |
| Phlebotomists                                     | \$30,597       | 1,442              | 36%         |
| Nuclear<br>Medicine<br>Technologists              | \$75,962       | 91                 | 13%         |
| Radiologic<br>Technologists                       | \$55,494       | 1,196              | 19%         |
| Magnetic<br>Resonance<br>Imaging<br>Technologists | \$68,661       | 217                | 21%         |

### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
Health Occupation  
Students of America  
(HOSA)

**Work Based Learning  
Activities:**  
Clinical rotations at a  
community wellness  
center, hospital, assisted  
living, 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 Service Endorsement.  
Approved Statewide Program of Study - September 2019

# COURSE INFORMATION

| COURSE NAME                         | SERVICE ID                                                                                   | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ) | GRADE |
|-------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------|-------|
| Principles of Health Science        | 13020200 (1 credit)                                                                          | None                                        | 9-10  |
| Principles of Diagnostic Healthcare | TBD                                                                                          | TBD                                         | TBD   |
| Introduction to Imaging Technology  | TBD                                                                                          | TBD                                         | TBD   |
| Medical Terminology                 | 13020300 (1 credit)                                                                          | None                                        | 9-12  |
| Imaging and Technology I            | TBD                                                                                          | TBD                                         | TBD   |
| Health Science Theory               | 13020400 (1 credit)<br>13020410 (2 credits)                                                  | PREQ: Biology                               | 10-12 |
| Medical Microbiology                | 13020700 (1 credit)                                                                          | PREQ: Biology and Chemistry                 | 10-12 |
| Imaging Technology II               | TBD                                                                                          | TBD                                         | TBD   |
| Anatomy and Physiology              | 13020600 (1 credit)                                                                          | PREQ: Biology and a second science credit   | 10-12 |
| Pathophysiology                     | 13020800                                                                                     | PREQ: Biology and a second science credit   | 10-12 |
| Practicum in Health Science         | 13020500 (2 credits)<br>13020505 (3 credits)<br>13020510 (2 credits)<br>13020515 (3 credits) | PREQ: Health Science Theory and Biology     | 11-12 |

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## COURSES

### LEVEL 1

Principles of Health Science  
Principles of Therapeutic Healthcare (TBD)  
Introduction to Pharmacy Science (TBD)  
Introduction to Dental Science (TBD)

### LEVEL 2

Medical Terminology  
Dental Anatomy and Physiology (TBD)  
Pharmacy I (TBD)

### LEVEL 3

Anatomy and Physiology  
Health Science Theory  
Medical Microbiology  
Pharmacy II (TBD)  
Medical Assistant (TBD)  
Dental Equipment and Procedures (TBD)

### LEVEL 4

Pathophysiology  
Pharmacology  
Practicum in Health Science

## POSTSECONDARY OPTIONS

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

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](http://TXCTE.org).

| OCCUPATIONS             | MEDIAN<br>WAGE | ANNUAL<br>OPENINGS | %<br>GROWTH |
|-------------------------|----------------|--------------------|-------------|
| Medical Assistants      | \$29,598       | 8,862              | 30%         |
| Surgical Technologists  | \$46,310       | 1,150              | 21%         |
| 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:

SkillsUSA  
Health Occupation  
Students of America  
(HOSA)

#### Work Based Learning Activities:

Volunteer at a community wellness center, 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.



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Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study - September 2019



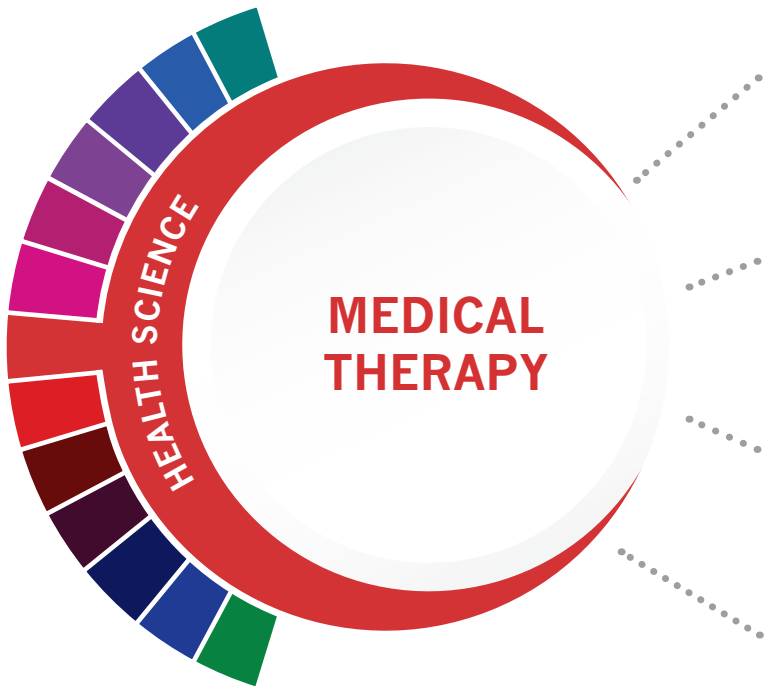
# COURSE INFORMATION

| COURSE NAME                          | SERVICE ID                                                                                   | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ) | GRADE |
|--------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------|-------|
| Principles of Health Science         | 13020200 (1 credit)                                                                          | None                                        | 9-10  |
| Principles of Therapeutic Healthcare | TBD                                                                                          | TBD                                         | TBD   |
| Introduction to Pharmacy Science     | TBD                                                                                          | TBD                                         | TBD   |
| Introduction to Dental Science       | TBD                                                                                          | TBD                                         | TBD   |
| Medical Terminology                  | 13020300 (1 credit)                                                                          | None                                        | 9-12  |
| Dental Anatomy and Physiology        | TBD                                                                                          | TBD                                         | TBD   |
| Pharmacy I                           | TBD                                                                                          | TBD                                         | TBD   |
| Anatomy and Physiology               | 13020600 (1 credit)                                                                          | PREQ: Biology and a second science credit   | 10-12 |
| Health Science Theory                | 13020400 (1 credit)<br>13020410 (2 credits)                                                  | PREQ: Biology                               | 10-12 |
| Medical Microbiology                 | 13020700 (1 credit)                                                                          | PREQ: Biology and Chemistry                 | 10-12 |
| Pharmacy II                          | TBD                                                                                          | TBD                                         | TBD   |
| Medical Assistant                    | TBD                                                                                          | TBD                                         | TBD   |
| Dental Equipment and Procedures      | TBD                                                                                          | TBD                                         | TBD   |
| Pathophysiology                      | 13020800 (1 credit)                                                                          | PREQ: Biology and Chemistry                 | 11-12 |
| Pharmacology                         | 13020950 (1 credit)                                                                          | PREQ: Biology and Chemistry                 | 11-12 |
| Practicum in Health Science          | 13020500 (2 credits)<br>13020505 (3 credits)<br>13020510 (2 credits)<br>13020515 (3 credits) | PREQ: Health Science Theory and Biology     | 11-12 |

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## COURSES

- LEVEL 1**  
Principles of Health Science  
Introduction to Speech Pathology and Audiology  
Principles of Allied Health (TBD)

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- LEVEL 2**  
Medical Terminology  
Speech and Language Development  
Allied Health Therapeutic Services (TBD)

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- LEVEL 3**  
Speech Communication Disorder  
Health Science Theory  
Physical Therapy I (TBD)  
Occupational Therapy I (TBD)  
Radiation Therapy I (TBD)  
Respiratory Therapy I (TBD)

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- LEVEL 4**  
Practicum in Health Science  
Occupational Therapy II (TBD)  
Physical Therapy II (TBD)  
Radiation Therapy II (TBD)  
Respiratory Therapy II (TBD)

## POSTSECONDARY OPTIONS

| 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     |                        |                                       |

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](http://TXCTE.org).

| OCCUPATIONS                  | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|------------------------------|-------------|-----------------|----------|
| Speech Language Pathologists | \$73,070    | 1,068           | 25%      |
| Respiratory Therapists       | \$57,429    | 17,493          | 20%      |
| Occupational Therapists      | \$92,227    | 84              | 34%      |
| Physical Therapy Assistants  | \$70,200    | 1,268           | 44%      |
| Radiation Therapists         | \$70,658    | 101             | 23%      |

### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
Health Occupation Students of America (HOSA)

**Work Based Learning Activities:**  
Lab internship  
Job shadow  
Clinical rotations

The Medical Therapist 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 Therapist. Students 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.

Successful completion of the Medical Therapist program of study will fulfill requirements of the Public Service Endorsement. Approved Statewide Program of Study - September 2019



# COURSE INFORMATION

| COURSE NAME                                    | SERVICE ID                                                                                   | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ) | GRADE    |
|------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------|----------|
| Principles of Health Science                   | 13020200 (1 credit)                                                                          | None                                        | 9-10     |
| Introduction to Speech Pathology and Audiology | N1302100 (1 credit)                                                                          | None                                        | 10-12    |
| Principles of Allied Health                    | TBD                                                                                          | TBD                                         | TBD      |
| Medical Terminology                            | 13020300 (1 credit)                                                                          | None                                        | 9-12     |
| Speech and Language Development                | N1302098 (1 credit)                                                                          | None                                        | 11-12    |
| Allied Health Therapeutic Service              | TBD                                                                                          | TBD                                         | TBD      |
| Speech Communications Disorders                | N1302099 (1 credit)                                                                          | None                                        | 11-12    |
| Health Science Theory                          | 13020400 (1 credit)<br>13020410 (2 credits)TBD                                               | PREQ: BiologyTBD                            | 10-12TBD |
| Physical Therapy I                             | TBD                                                                                          | TBD                                         | TBD      |
| Occupational Therapy I                         | TBD                                                                                          | TBD                                         | TBD      |
| Radiation Therapy I                            | TBD                                                                                          | TBD                                         | TBD      |
| Respiratory Therapy I                          | TBD                                                                                          | TBD                                         | TBD      |
| Practicum in Health Science                    | 13020500 (2 credits)<br>13020505 (3 credits)<br>13020510 (2 credits)<br>13020515 (3 credits) | PREQ: Health Science Theory and Biology     | 11-12    |
| Occupational Therapy II                        | TBD                                                                                          | TBD                                         | TBD      |
| Physical Therapy II                            | TBD                                                                                          | TBD                                         | TBD      |
| Radiation Therapy II                           | TBD                                                                                          | TBD                                         | TBD      |
| Respiratory Therapy II                         | TBD                                                                                          | TBD                                         | TBD      |

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



## COURSES

### LEVEL 1

Principles of Health Science  
Principles of Nursing (TBD)

### LEVEL 2

Medical Terminology  
Science of Nursing (TBD)

### LEVEL 3

Medical Microbiology  
Anatomy and Physiology  
Clinical Ethics (TBD)  
Leadership and Management in Nursing (TBD)

### LEVEL 4

Pathophysiology  
Pharmacology  
Practicum in Nursing (TBD)

## POSTSECONDARY OPTIONS

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

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](http://TXCTE.org).

| 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%      |
| Informatics Nurse Specialists | \$88,270    | 4,610           | 15%      |
| Nurse Anesthetists            | \$154,856   | 357             | 23%      |

## WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
Health Occupation Students of America (HOSA)

**Work Based Learning Activities:**  
Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

The Nursing Program of Study introduces students to knowledge and skills related to patient care. CTE concentrators 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 program of study will fulfill requirements of the Public Service Endorsement. Approved Statewide Program of Study - September 2019

# COURSE INFORMATION

| COURSE NAME                          | SERVICE ID          | PREREQUISITES (PREQ)<br>COREQUISITES (CREQ) | GRADE |
|--------------------------------------|---------------------|---------------------------------------------|-------|
| Principles of Health Science         | 13020200 (1 credit) | None                                        | 9-10  |
| Principles of Nursing                | TBD                 | TBD                                         | TBD   |
| Medical Terminology                  | 13020300 (1 credit) | None                                        | 9-12  |
| Science of Nursing                   | TBD                 | TBD                                         | TBD   |
| Medical Microbiology                 | 13020700 (1 credit) | PREQ: Biology and Chemistry                 | 10-12 |
| Anatomy and Physiology               | 13020600 (1 credit) | PREQ: Biology and a second science credit   | 10-12 |
| Clinical Ethics                      | TBD                 | TBD                                         | TBD   |
| Leadership and Management in Nursing | TBD                 | TBD                                         | TBD   |
| Pathophysiology                      | 13020800 (1 credit) | PREQ: Biology and Chemistry                 | 11-12 |
| Pharmacology                         | 13020950 (1 credit) | PREQ: Biology and Chemistry                 | 11-12 |
| Practicum in Nursing                 | TBD                 | TBD                                         | TBD   |

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

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