Health Science Career Cluster

The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.

Statewide Program of Study: Diagnostic and Therapeutic Services

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Secondary Courses for High School Credit

Level 1

- **Introduction to Dental Science(1 credit)**
  - 1465CT; 9-12 grade
  - 1 semester at Ben Barber

Level 2

- **Medical Terminology (1 credit)**
  - 1443CT; 9-12 grade
  - 1 semester at Ben Barber
- **Dental Anatomy and Physiology (1 credit)**
  - 1461CT; 10-12 grade
  - *Prerequisite: Introduction to Dental Science*

Level 3

- **Anatomy and Physiology (1 credit)**
  - 0810CT or 8100A/B; 11-12 grade
  - 1 semester at Ben Barber or 2 semesters at Home Campus
  - Science Credit
  - *Prerequisite: Biology AND Level 2 or 3 Health Science Course*
- **Medical Microbiology (1 credit)**
  - 8120CT; 10-12 grade
  - 1 semester at Ben Barber
  - Science Credit
  - *Prerequisite: Biology, Chemistry, AND Medical Terminology*
- **Health Science Theory (1 credit)**
  - 1411CT; 10-12 grade
  - 1 semester at Ben Barber
  - *Prerequisite: Biology AND Medical Terminology*
- **Phlebotomy (1 credit)**
  - 1424CT; 11-12 grade
  - 1 semester at Ben Barber *** Students cannot take Phlebotomy and EKG**
  - *Prerequisites: Medical Terminology AND a Level 3 course AND Selection Process*
  - Certified Phlebotomy Technician Certification Possible
- **EKG/ECG (1 credit)**
  - 1426CT; 11-12 grade
  - 1 semester at Ben Barber *** Students cannot take Phlebotomy and EKG**
  - *Prerequisites: Medical Terminology AND a Level 3 course AND Selection Process*
  - Certified EKG Technician Certification Possible

Level 4

- **Pathophysiology (1 credit)**
  - 8125CT; 11-12 grade
  - 1 semester at Ben Barber
  - Science Credit
  - *Prerequisite: Biology AND Chemistry AND Level 2 or 3 Health Science Course*
- **Pharmacy Technician (2 credits)**
  - 1421CA/CB; 12th grade
  - 2 semesters at Ben Barber
  - *Prerequisites: Health Science Theory AND Any Level 3 Health Science Course AND Selection Process*
  - Certified Pharmacy Technician Certification Possible
- **Practicum in Health Science (2 credits)**
  - 1431CA/CB; 12 only
  - 2 semesters at Ben Barber
  - *Prerequisite: Health Science Theory AND any Level 3 Health Science Course AND Selection Process*
- **Certified Nurse Aide (1 credit)**
  - 1471CT; 12th grade
  - 1 semester at Ben Barber
  - *Prerequisite: Health Science Theory AND any Level 3 Health Science Course AND Selection Process*
  - Certified Nurse Aide (CNA) Certification Possible
- **Medical Assistant (2 credits)**
  - 1413CA/CB; 12th grade
  - 2 semesters at Ben Barber
  - *Prerequisites: Health Science Theory AND Phlebotomy or EKG AND Selection Process*
  - Certified Medical Assistant Certification Possible



Example Postsecondary Opportunities

Associate Degrees
- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's Degrees
- Emergency Medical Technology
- Medical Insurance Coding

Master's, Doctoral, and Professional Degrees
- Medicine
- Occupational Therapy

Stackable IBCs/License
- Medical Assistant
- Phlebotomy/EKG Technician
- Certified Nurse Aide (CNA)
- Pharmacy Technician

Example Aligned Occupations

Medical Assistants
Median Wage: $36,834
Annual Openings: 11,638
10-Year Growth: 29%

Dental Hygienists
Median Wage: $79,663
Annual Openings: 1,352
10-Year Growth: 32%

Physician Assistants
Median Wage: $127,332
Annual Openings: 974
10-Year Growth: 41%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources

Texas Education Agency

Diagnostic and Therapeutic Services