

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. 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.

Statewide Program of Study: Diagnostic and Therapeutic Services (CNA, MA, Pharmacy, Phlebotomy)

The 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.



Secondary Courses for High School Credit

Level 1

- Principles of Health Science

Level 2

- Medical Terminology

Level 3

- Anatomy and Physiology
- Health Science Theory

Level 4

- Practicum in Health Science I
- Practicum in Health Science II
- Pathophysiology

Aligned Advanced Academic Courses

AP or IB	AP Biology IB Biology SL IB Biology HL	AP Chemistry IB Chemistry SL IB Chemistry HL
Dual Credit	Dual credit offerings will vary based on Local Education Agency.	

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	<ul style="list-style-type: none"> Intern with a medical assistant at a community clinic, hospital, assisted living or long-term care facility Participate in job shadowing experiences such as Emergency Medical Services (EMS) ride along, hospital/clinical job shadow
Expanded Learning Opportunities	<ul style="list-style-type: none"> Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event Participate in SkillsUSA or Health Occupation Students of America (HOSA) <p>HOSA provides a unique program of leadership development, motivation and recognition to attract career-minded, qualified students to health care professions. HOSA students develop essential knowledge and skills that prepare them to explore and pursue a career in health care. Students compete at the regional, state, and national levels in Skills Assessment Program events, engage in community and leadership service activities, and meet students across the state and country through participation in our programs.</p>

Aligned Industry-Based Certifications

- Certified Nurse Aide (CNA)
- Medical Assistant
- Pharmacy Technician
- Phlebotomy Technician



Example Postsecondary Opportunities

Apprenticeships

- Medical Assistant

Associate Degrees

- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's Degrees

- Emergency Medical Technology
- Medical Insurance Coding Specialist

Master's, Doctoral, and Professional Degrees

- Medicine
- Occupational Therapy

Additional Stackable IBCs/Licensures

- Registered Diagnostic Medical Sonographer



Example Aligned Occupations

Medical Assistants

Median Wage: \$13,191
Annual Openings: 13,191
10-Year Growth: 25%

Clinical Laboratory Technologists and Technicians

Median Wage: \$48,497
Annual Openings: 2,369
10-Year Growth: 16%

Physician Assistants

Median Wage: \$120,841
Annual Openings: 1,022
10-Year Growth: 40%

Data Source: Lightcast™. (2022). Occupation Table. Retrieved 9/27/2022.



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



Health Science Career Cluster

Statewide Program of Study: *Diagnostic and Therapeutic Services*

Course Information

Level 1

Course	Prerequisites Corequisites	Career Clusters
Principles of Health Science* 13020200 (1 credit)	Prerequisites: None Corequisites: None	

Level 2

Course	Prerequisites Corequisites	Career Clusters
Medical Terminology* 13020300 (1 credit)	Prerequisites: None Corequisites: None	

Level 3

Course	Prerequisites Corequisites	Career Clusters
Anatomy and Physiology* 13020600 (1 credit)	Prerequisites: one credit in Biology and one credit in Chemistry, Integrated Physics and Chemistry, or Physics Corequisites: None	
Health Science Theory* 13020400 (1 credit)	Prerequisites: one credit in Biology and at least one credit in a course from the Health Science Career Cluster Corequisites: None	

Level 4

Course	Prerequisites Corequisites	Career Clusters
Practicum in Health Science I* First Time Taken: 13020500 (2 credits)	Prerequisites: Health Science Theory and Biology Corequisites: None	
Practicum in Health Science II* Second Time Taken: 13020510 (2 credits)	Prerequisites: Health Science Theory and Biology Corequisites: None	
Pathophysiology* 13020800 (1 credit)	Prerequisites: one credit in Biology, one credit in Chemistry, and at least one credit in a Level 2 or higher course from the Health Science career cluster. Corequisites: None	

* Indicates course is included in more than one program of study.

For additional information on the **Health Science Career Cluster**, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>

San Benito CISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Title IX Coordinator: Erika Echartea, Executive Director of Administrative Services, at eechartea@sbcisd.net or 956-361-6100 or ADA/Section 504 Coordinator, Janette Bristow, Health Services Coordinator, at jmbristow@sbcisd.net or 956-361-6100; Title IX Coordinator: Nancy Casas, College, Career, Military Readiness Director, at ncasas@sbcisd.net or 956-361-6100; or ADA/Section 504 Coordinator: Ernesto Manriquez, Director of Special Services, at emanriquez@sbcisd.net or 956-361-6100, San Benito CISD, 240 N. Crockett St., San Benito, TX 78586.

