

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.

Biomedical Science Statewide Program of Study



The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce CTE learners to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication.

Secondary Courses for High School Credit

Level 1

- Principles of Biomedical Science (PLTW)-Weighted
 - 1 Semester at Ben Barber
 - 1400CT/9-12

Level 2

- Medical Terminology
 - 1 Semester at Ben Barber
 - 1443CT/9-12

Level 3

- Anatomy & Physiology – Science Credit
 - 1 Semester at Ben Barber or 2 Semesters at Home Campus
 - 0810CT or 8100A-B/11-12
 - Prerequisites: Biology AND Level 2 or 3 Health Science Course**
- Medical Microbiology – Science Credit
 - 1 Semester at Ben Barber
 - 8120CT/10-12
 - Prerequisites: Biology, Chemistry AND Medical Terminology**

Level 4

- Pathophysiology– Science Credit
 - 1 Semester at Ben Barber
 - 8125CT/11-12
 - Prerequisites: Biology & Chemistry AND Level 2 or 3 Health Science Course**
- Practicum in Health Science*
 - 2 Semesters at Ben Barber
 - 1431CA-CB/12 only
 - Prerequisites: Health Science Theory AND Any Level 3 Health Science Course**
 - Selection Process

Roadmap to Completer

Levels	Courses	
Level 1	1400CT Principles of Biomedical Science (PLTW) (1 Credit)	
Level 2	1443CT Medical Terminology (1 Credit)	
Level 3	8120CT Medical Microbiology (1 Credit)	0810CT or 8100A/B Anatomy & Physiology (1 Credit)
Level 4	1431CA-CB Practicum in Health Science (2 Credits)	8125CT Pathophysiology (1 Credit)

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semesters Ben Barber	Ben Barber or HC
------------------------	------------------------	-----------------------	------------------------	------------------

- Failure to follow the sequence of courses in the Roadmap to Completer could result in a student not meeting standards to be a CTE Completer in the program of study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Biomedical Science program of study will fulfill requirements of the STEM or Public Service endorsement.