Industry Credentials, Concentration Sequences, and Career Clusters

Biomedical Innovation (8382)

Industry Credentials:

These apply only to 36-week courses.

- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Project Lead the Way End-of-Course Assessments
- Workplace Readiness Skills for the Commonwealth Examination

Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Medical Interventions (PLTW) (8381/36 weeks)
- Principles of the Biomedical Sciences (PLTW) (8379/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Health Science
  - Biotechnology Research and Development
    - Biochemist
    - Cell Biologist
    - Medical, Clinical Laboratory Technician
    - Research Assistant
  - Diagnostics Services
    - Cardiovascular Technologist
    - Computer Tomography (CT) Technologist
    - Medical, Clinical Laboratory Technician
    - Medical, Clinical Laboratory Technologist
    - Nuclear Medicine Technologist
    - Phlebotomist
    - Radiologic Technologist, Radiographer
    - Radiologist
  - Health Informatics

- Bioinformatics Technician
- Dental Laboratory Technician
- Epidemiologist
- Health Educator
  - o Support Services
    - Administrative Assistant
    - Communications Equipment Operator
    - Data Entry Specialist
    - Environmental Sampling and Analysis Technician
    - Food Service Worker
    - Front Office Assistant
    - Materials Manager
    - Medical Transcriptionist
    - Medical, Clinical Laboratory Technologist
    - Records Processing Assistant
  - o Therapeutic Services
    - Physician
- Science, Technology, Engineering and Mathematics
  - o Engineering and Technology
    - Agricultural Engineer
    - Biomedical Engineer
    - Chemical Engineer
    - Commercial and Industrial Designer
    - Computer Hardware Engineer
    - Computer Programmer
    - Computer Software Engineer
    - Electro-Mechanical Technician
    - Electronics Engineering Technician
    - Engineer
    - Engineering Manager
    - Engineering Technician
    - Environmental Engineer
    - Human Factors Engineer
    - Industrial Engineer
    - Materials Engineer
    - Network and Computer Systems Administrator
    - Network Systems and Data Communication Analyst
    - Project Manager
    - Quality Engineer
    - Quality Technician
    - Statistician
    - Systems Analyst