

Industry Credentials, Concentration Sequences, and Career Clusters

Principles of the Biomedical Sciences (PTLW) (8379)

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.*

- Biomedical Innovation (PLTW) (8382/36 weeks)
- Human Body Systems (PLTW) (8380/36 weeks)
- Medical Interventions (PLTW) (8381/36 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
- 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
- Therapeutic Services
 - Athletic Trainer
 - Audiologist
 - Certified Nurse Aide
 - Dental Assistant
 - Emergency Medical Technician, Paramedic
 - Exercise Physiologist
 - Home Health Aide
 - Licensed Practical Nurse
 - Massage Therapist
 - Medical Assistant
 - Occupational Therapist
 - Occupational Therapist Aide
 - Optician
 - Pharmacy Technician
 - Physical Therapist
 - Physical Therapist Assistant
 - Recreation Therapist
 - Registered Nurse
 - Surgeon
 - Surgical Technologist
 - Veterinary Assistant
 - Veterinary Technologist
- Law, Public Safety, Corrections and Security
 - Emergency and Fire Management Services
 - Emergency Medical Technician, Paramedic
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Biomedical Engineer
 - Human Factors Engineer
 - Materials Engineer
 - Science and Mathematics

- Biologist
- Materials Scientist
- Microbiologists
- Research Chemist