

Industry Credentials, Concentration Sequences, and Career Clusters

Biotechnology Foundations in Technology Education (8468)

Industry Credentials:

These apply only to 36-week courses

- Agricultural Biotechnology Assessment
- Biotechnology Assessment
- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- 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.*

- Applied Agricultural Concepts (18 Weeks)
- Applied Agricultural Concepts (36 Weeks)
- Biological Applications in Agriculture
- Biomedical Engineering
- Biomedical Technician
- Forensic Technology
- Medical Laboratory Technology I
- Medical Laboratory Technology II

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Animal Systems
 - Animal Breeder, Husbandry
 - Animal Scientist

- Environmental Service Systems
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Toxicologist
- Food Products and Processing Systems
 - Biochemist
 - Food Scientist
- Plant Systems
 - Botanist
 - Forest Geneticist
 - Plant Breeder/Geneticist
- Power, Structural, and Technical Systems
 - Agricultural Engineer
- Health Science
 - Biotechnology Research and Development
 - Biochemist
 - Diagnostics Services
 - Medical, Clinical Laboratory Technician
 - Health Informatics
 - Epidemiologist
 - Support Services
 - Environmental Sampling and Analysis Technician
 - Medical, Clinical Laboratory Technologist
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Agricultural Engineer
 - Biomedical Engineer
 - Environmental Engineer
 - Science and Mathematics
 - Biologist
 - Environmental Scientist