

Industry Credentials, Concentration Sequences, and Career Clusters

Environmental Sustainability (PLTW) (8911)

Industry Credentials:

These apply only to 36-week courses

- 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.*

- Civil Engineering and Architecture (PLTW)
- Digital Electronics (PLTW)
- Engineering Computer Science
- Engineering Explorations I
- Introduction to Engineering Design (PLTW)
- Principles of Engineering (PLTW)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Environmental Service Systems
 - Agricultural Products Sales Representative
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Hazardous Materials Handler
 - Recycling Coordinator
 - Secondary School Teacher
 - Toxicologist

- Water Conservationist
 - Food Products and Processing Systems
 - Biochemist
 - Natural Resources Systems
 - Ecologist
 - Fish and Game Officer
 - Fisheries Technician
 - Forest Manager, Forester
 - Forest Technician
 - Geological Technician
 - Microbiologist
 - Wildlife Manager
 - Plant Systems
 - Botanist
 - Certified Crop Advisor
 - Forest Geneticist
 - Plant Breeder/Geneticist
 - Soil and Plant Specialist
 - Power, Structural, and Technical Systems
 - Agricultural Engineer
- Architecture and Construction
 - Design/Pre-Construction
 - Architect
 - Architectural Drafter
 - Building Code Inspector
 - Civil Engineer
 - Landscape Architect
- Energy
 - Energy Efficiency
 - Biologist
 - Environmental Engineer
 - Environmental Engineering Technician
 - Environmental Science and Protection Technician
 - Environmental Scientist
 - Forest and Conservation Technician
 - Geoscientist
 - Fuels Production
 - Geological Technician

- Petroleum Engineer
- Government and Public Administration
 - Governance
 - Lobbyist
 - Planning
 - Urban and Regional Planner
 - Regulation
 - Environmental Compliance Inspector
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Agricultural Engineer
 - Civil Engineer
 - Civil Engineering Technician
 - Environmental Engineer
 - Landscape Architect
 - Marine Engineer
 - Petroleum Engineer
 - Science and Mathematics
 - Animal Nutritionist
 - Animal Scientist
 - Atmospheric Scientist
 - Biologist
 - Botanist
 - Ecologist
 - Environmental Scientist
 - Hydrologist
 - Plant Biologist
 - Plant Pathologist
 - Plant Breeder/Geneticist
- Transportation, Distribution and Logistics
 - Health, Safety, and Environmental Management
 - Health, Safety, and Environment Engineer