

Industry Credentials, Concentration Sequences, and Career Clusters

Horticulture Sciences (8034)

Industry Credentials:

These apply only to 36-week courses

- BASF Plant Science Certification Examination
- Certified Commercial Pesticide Applicator Examination
- Certified Private Applicator Examination
- Certified Registered Technician Pesticide Applicator Examination
- Chesapeake Bay Landscape Professional-Associate (CBLP-A) Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Floriculture Assessment
- Floriculture: Greenhouse Assessment
- Greenhouse Operators Certification Examination
- Horticulture/Landscaping Assessment
- 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.*

- Agricultural Business Fundamentals I
- Applied Agricultural Concepts (18 Weeks)
- Applied Agricultural Concepts (36 Weeks)
- Biological Applications in Agriculture
- Biotechnology Foundations in Agricultural and Environmental Science
- Community Forestry and Tree Management
- Ecology and Environmental Management (18 Weeks)
- Ecology and Environmental Management (36 Weeks)

- Floral Design I
- Floriculture
- Greenhouse Plant Production and Management
- Introduction to Plant Systems
- Landscaping I
- Operating the Farm Business
- Small Engine Repair (18 Weeks)
- Small Engine Repair (36 Weeks)
- Turfgrass Management

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Agricultural Commodity Broker
 - Agricultural Economist
 - Agricultural Loan Officer
 - Agricultural Products Sales Representative
 - Farm Products Purchasing Agent and Buyer
 - Farm, Ranch Manager
 - Farmer/Rancher
 - Feed, Farm Supply Store Sales Manager
 - Sales Manager
 - Environmental Service Systems
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Toxicologist
 - Turf Farmer
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Forest Manager, Forester
 - Forest Technician
 - Microbiologist
 - Plant Systems
 - Agricultural Products Sales Representative
 - Botanist

- Certified Crop Advisor
- Crop Grower
- Custom Harvester
- Farm, Ranch Manager
- Farmer/Rancher
- Floral Designer
- Floral Shop Manager
- Forest Geneticist
- Nursery and Greenhouse Manager
- Ornamental Horticulturist
- Plant Breeder/ Geneticist
- Secondary School Teacher
- Soil and Plant Scientist
- Tree Surgeon
- Turf Farmer
- Science, Technology, Engineering and Mathematics
 - Science and Mathematics
 - Biologist
 - Botanist
 - Chemist
 - Microbiologists
 - Plant Biologist
 - Plant Breeder and Geneticist
 - Plant Pathologist
 - Research Chemist
 - Secondary School Teacher
 - Technical Writer
 - Toxicologist