

# Industry Credentials, Concentration Sequences, and Career Clusters

## Horticulture Sciences (8034)

### Industry Credentials:

*These apply only to 36-week courses.*

- BASF Plant Science Certification 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 (8022/36 weeks)
- Agricultural Business Management III (8026/36 weeks)
- Agricultural Business Operations II (8024/36 weeks)
- Applied Agricultural Concepts (8072/18 weeks)
- Applied Agricultural Concepts (8073/36 weeks)
- Biological Applications in Agriculture (8086/36 weeks)
- Biotechnology Applications in Agriculture (8087/36 weeks)
- Biotechnology Foundations in Agricultural and Environmental Science (8085/36 weeks)
- Floral Design I (8055/36 weeks)
- Floral Design II (8056/36 weeks)
- Floriculture (8038/36 weeks)
- Greenhouse Plant Production and Management (8035/36 weeks)
- Introduction to Plant Systems (8007/36 weeks)
- Landscaping I (8036/36 weeks)

- Landscaping II (8039/36 weeks)
- Operating the Farm Business (8014/36 weeks)
- Turfgrass Management (8051/36 weeks)
- Turfgrass Management, Advanced (8054/36 weeks)

## **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
    - Agricultural Products Sales Representative
    - Environmental Compliance Inspector
    - Environmental Sampling and Analysis Technician
    - Hazardous Materials Handler
    - Recycling Coordinator
    - Secondary School Teacher
    - Toxicologist
    - Turf Farmer
    - Water Conservationist
  - 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

- Golf Course Superintendent
  - Machine Setter, Operator
  - 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