

Industry Credentials, Concentration Sequences, and Career Clusters

Agricultural Production Technology (8010)

Industry Credentials:

These apply only to 36-week courses

- Animal Systems Assessment
- BASF Plant Science Certification Examination
- Beef Quality Assurance Examination
- Certified Commercial Pesticide Applicator Examination
- Certified Private Applicator Examination
- Certified Registered Technician Pesticide Applicator Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- FAA Remote Pilot Small Unmanned Aircraft Systems Certification Examination
- National Career Readiness Certificate Assessment
- Principles of Livestock Selection and Evaluation Certification Examination
- Production Agriculture 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
- Agricultural Business Management III
- Agricultural Business Operations II
- Applied Agricultural Concepts (18 Weeks)
- Applied Agricultural Concepts (36 Weeks)
- Ecology and Environmental Management

- Equine Science (18 Weeks)
- Equine Science (36 Weeks)
- Introduction to Animal Systems
- Introduction to Natural Resources and Ecology Systems
- Introduction to Plant Systems
- Introduction to Power, Structural and Technical Systems
- Livestock Production Management
- Operating the Farm Business

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Farm, Ranch Manager
 - Sales Manager
 - Animal Systems
 - Agricultural Products Sales Representative
 - Animal Breeder, Husbandry
 - Animal Geneticist
 - Animal Nutritionist
 - Animal Scientist
 - Aquacultural Manager
 - Poultry Manager
 - Veterinarian
 - Veterinary Technician
 - Environmental Service Systems
 - Toxicologist
 - Turf Farmer
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Fisheries Technician
 - Plant Systems
 - Certified Crop Advisor
 - Soil and Plant Scientist
 - Power, Structural, and Technical Systems
 - Agricultural Engineer

- Agricultural Equipment Operator
- Agricultural Equipment Parts Manager
- Agricultural Equipment Parts Sales Representative
- Machinist
- Parts Manager
- Welder