

Industry Credentials, Concentration Sequences, and Career Clusters

Introduction to Animal Systems (8008)

Industry Credentials:

These apply only to 36-week courses

- Agricultural Biotechnology Assessment
- Animal Systems Assessment
- Beef Quality Assurance Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Food Safety & Science Certification Examination
- Fundamentals of Animal Science Certification Examination
- Meat Evaluation Certification Examination
- National Career Readiness Certificate Assessment
- Principles of Livestock Selection and Evaluation Certification Examination
- 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 Production Technology
- Agricultural Structural Systems
- Applied Agricultural Concepts (18 weeks)
- Applied Agricultural Concepts (36 weeks)
- Biological Applications in Agriculture
- Biotechnology Foundations in Agricultural and Environmental Science
- Equine Science (18 Weeks)
- Equine Science (36 Weeks)
- Fisheries and Wildlife Management

- Foundations of Agriculture, Food, and Natural Resources
- Livestock Production Management
- Operating the Farm Business
- Small Animal Care I
- Small Animal Care I (18 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, Ranch Manager
 - Feed, Farm Supply Store 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
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Hazardous Materials Handler
 - Toxicologist
 - Water Conservationist
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Fish and Game Officer
 - Fisheries Technician

- Forest Manager, Forester
- Forest Technician
- Microbiologist
- Park Manager
- Park Technician
- Wildlife Manager
- Power, Structural, and Technical Systems
 - Agricultural Engineer
 - Agricultural Equipment Parts Manager
 - Agricultural Equipment Parts Sales Representative
 - Machinist
 - Welder