

Industry Credentials, Concentration Sequences, and Career Clusters

Equine Science (8015, 8080)

Industry Credentials:

These apply only to 36-week courses.

- Animal Systems Assessment
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Equine Management and Evaluation Examination
- Equine Science - Year Certification Examination
- National Career Readiness Certificate Assessment
- Small Animal Science and Technology 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)
- Agricultural Production Technology (8010/36 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)
- Equine Science, Advanced (8094/36 weeks)
- Introduction to Animal Systems (8008/36 weeks)
- Livestock Production Management (8012/36 weeks)
- Small Animal Care I (8083/36 weeks)
- Small Animal Care II (8084/36 weeks)
- Veterinary Science I (8088/36 weeks, 140 hours)
- Veterinary Science II (8089/36 weeks, 140 hours)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Agricultural Commodity Broker
 - Agricultural Products Sales Representative
 - Farm Products Purchasing Agent and Buyer
 - Farm, Ranch Manager
 - Farmer/Rancher
 - Feed, Farm Supply Store Sales Manager
 - Sales Manager
 - Animal Systems
 - Agricultural Products Sales Representative
 - Animal Breeder, Husbandry
 - Animal Geneticist
 - Animal Nutritionist
 - Animal Scientist
 - Veterinarian
 - Veterinary Technician
 - Environmental Service Systems
 - Agricultural Products Sales Representative
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Hazardous Materials Handler
 - Secondary School Teacher
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Microbiologist
 - Outdoor Recreation Guide
 - Park Manager
 - Park Technician
 - Range Technician
 - Wildlife Manager
 - Power, Structural, and Technical Systems
 - Agricultural Engineer
 - Agricultural Equipment Operator
 - Agricultural Equipment Parts Manager
 - Agricultural Equipment Parts Salesperson
 - Machinist
 - Parts Manager
- Education and Training
 - Teaching and Training
 - Secondary School Teacher
 - Teacher Assistant
 - Training Consultant/Training Specialist
- Science, Technology, Engineering and Mathematics

- Engineering and Technology
 - Biomedical Engineer
- Science and Mathematics
 - Animal Nutritionist
 - Animal Scientist
 - Biologist
 - Chemist
 - Secondary School Teacher
 - Technical Writer
 - Toxicologist
 - Veterinarian
 - Veterinary Assistant