UNITY COLLEGE
Distance Education

Animal Science
Bachelor's Degree (2020-2021)

The B.S. in Animal Science prepares students to apply animal biology, chemistry, nutrition and physiology to the study of animal breeding and genetics, growth, behavior, and management. The curriculum can be applied to a great variety of species, from livestock to companion animals to pets. The animal science major provides excellent preparation for students who wish to find positions immediately upon graduation, as well as those who plan to enter graduate or veterinary schools to obtain advanced degrees.

Graduates of the B.S. in Animal Science will be able to:

1. Demonstrate knowledge of the basic principles of animal genetics, nutrition, reproduction and physiology.
2. Apply knowledge of animal husbandry, behavior and handling techniques to effectively interact with animals in a safe and humane manner.
3. Appreciate the breadth of animal sciences in terms of the variety of career paths, the diversity of the animal industries, and the many roles of animals in society.
4. Communicate effectively, both written and orally, and demonstrate confidence in attaining transferable job or post-graduate skills.
5. Practice the scientific method in solving 'real-world' problems including collecting and evaluating information, forming predictions, collecting and interpreting data and implementing action.
6. Build and sustain productive relationships to create positive change in response to challenging issues with animals and the agriculture industry at the local, national and international levels.

Select one track:

Companion Animal Care and Training Track

ANIM 103 Animal Training and Care

ANIM 306 Understanding the Role of Emotional Support and Service Animals

Sustainable Livestock Management Track

ANIM 310 Sustainable Livestock Health, Nutrition, and Care

ANIM 410 Sustainable Livestock Management

Equine Science and Management Track

ANIM 315 Equine Health, Nutrition, and Care

ANIM 415 Horse Facility Management

Program Core

ANIM 205 Animal Nutrition

ANIM 301 Animal Husbandry and Genetics

ANIM 302 Animal Comparative Anatomy
ANIM 304 Animal Comparative Physiology
BIOL 301 Animal Behavior: The Evolution, Ecology, and Social Behavior of Animals
BIOL 310 Microbiology
BIOL 315 Cell Biology
CHEM 103 Chemistry II
CHEM 104 Chemistry II Laboratory
CHEM 201 Organic Chemistry I
CHEM 202 Organic Chemistry I Laboratory
CHEM 301 Biochemistry
CHEM 302 Biochemistry Laboratory

Environmental Professional Core

COMM 303 Communicating to Stakeholders **OR**
COMM 403 Environmental Crisis Communication
EVPC 101 Professional Skills
EVPC 201 Environmental Issues: Deforestation, Biodiversity Loss, and Overpopulation **OR**
EVPC 202 Environmental Issues: Energy, Water Scarcity, and Waste
EVPC 301 Environmental Justice **OR**
EVPC 305 Building a Better World: Ethical Decision-Making
EVPC 401 Transformational Leadership
EVPC 490 Transdisciplinary Capstone

General Education Core

BIOL 103 Biology: Foundations of Life
BIOL 104 Biology: Foundations of Life Laboratory
BIOL 105 Biological Diversity, Ecology, and Evolution
BIOL 106 Biological Diversity, Ecology, and Evolution Laboratory
CHEM 101 Chemistry I
CHEM 102 Chemistry I Laboratory
ENVS 201 The Warming Planet: Understanding Climate Change
MATH 201 Statistics for Environmental Professionals **OR**
MATH 215 Calculus
An Arts course
2 Communications courses
A Humanities course
A Language course
A Social Science course

General Electives

27 credits of general electives

College Wide Requirements: *A minimum of 120 earned credit hours, 30 credits at the 300 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above*