B.S. in Animal Science

Do you love animals and want to turn your passion into a career? In the Animal Science Program you can choose your track and specialize in a type of animal care. Choose from Companion Animal Care and Training, Sustainable Livestock Management, or Equine Science and Management.

Cost: $470 per credit
Military Discount: $423

Job Outcomes, Growth*, & Salary**

Livestock Manager
$50k +6

Companion Animal Director
$55k +10

Animal Husbandry & Science Technician
$40k +7

*Projected 10-year growth
**National median salary
Source: O*Net

Program Features

+ One-on-one academic and professional advising as our world-class faculty and trained staff strive to make your professional and academic goals a reality.

+ Unity College is an accredited institution by New England Commission of Higher Education (NECHE).

+ Experiential Online. Experiential programs are delivered 100% online with field work designed with the working professional in mind.

+ Study when and where you want and finish your degree while still working full-time.

+ Make professional connections with leaders in your field.

+ Get job placement assistance through our career services department.

+ Transfer friendly! We will accept up to 90 credits.
B.S. in Animal Science

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.

Job Outcomes, Growth*, & Salary**

Livestock Manager
Median Salary: $50k
Growth: +16
Livestock Managers plan, direct, or coordinate the management or operation of farms or ranches. They hire, train, or supervise farm workers or contract for services to carry out the day-to-day activities of the managed operation, and may also engage in breeding, financial, or marketing activities.

Companion Animal Director
Median Salary: $55k
Growth: +10
Companion Animal Directors are responsible for training and managing the training of animals for obedience, performance, riding, security, or assisting people with disabilities. This role is required to familiarize animals with human voices and contact, and they teach animals to respond to commands.

Animal Husbandry & Science Technician
Median Salary: $40k
Growth: +7
An Animal Husbandry & Science Technician is responsible for feeding, watering, herding, grazing, castrating, branding, de-beaking, weighing, catching, and loading animals. They also maintain records, examine animals, administer medications and vaccinations as needed.

*Projected 10-year growth  **National median salary  Source: O*Net
Graduates of the B.S. in Animal Science will be able to:

- **Describe** basic principles of animal genetics, nutrition, reproduction, and physiology, and explain how they inform best practices in animal husbandry.
- **Apply knowledge** of animal husbandry, behavior and handling techniques to effectively interact with animals in a safe and humane manner.
- **Describe** 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.
- **Use scientific methods** in solving ‘real-world’ problems including collecting and evaluating information, forming predictions, collecting and interpreting data, and implementing action.
- **Effectively** use communication skills (both oral and written) to build and sustain professional relationships and engage in productive discourse and/or work related to challenging issues with animals at local, national, and/or 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 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
  - Check here if only one COMM course complete
- 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
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+ **Describe** 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.

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**Environmental Professional Core**

**Required:**
- EVPC 101 Professional Skills
- EVPC 401 Transformational Leadership
- EVPC 490 Transdisciplinary Capstone

**Choose From:**
- EVPC 301 Environmental Justice OR EVPC 305 Building a Better World: Ethical Decision-Making

**General Education Foundation Requirements**
- BIOL 103 Biology: Foundations of Life
- BIOL 104 Biology Laboratory 1
- BIOL 105 Biological Diversity, Ecology, and Evolution
- BIOL 106 Biology Laboratory 2
- CHEM 101 Chemistry I
- CHEM 102 Chemistry I Laboratory
- MATH 201 Statistics for Environmental Professionals OR MATH 215 Calculus
Undergraduate Concentrations

- **Emergency Disaster Management**
  Learn how to proceed in the face of disasters to protect our environment.

- **Environmental Justice & Social Change**
  Protect our environment through policies and social change.

- **Marine Biology & Sustainable Aquaculture**
  Explore all aspects of oceanography, from vegetation to mammals.

- **Renewable Energy**
  Explore green technologies, such as wind, solar, geothermal and biomass power.

- **Wildlife Ecology**
  Understand how to manage different types of wildlife.

- **Sustainable Business**
  Develop sustainable business solutions and strategies for a modern world.

- **Environmental GIS**
  Develop in-demand Geographic Information Systems (GIS) mapping skills.

- **Animal Health & Behavior**
  Explore fundamental aspects of animal training and care.

- **Sustainable Food & Farming**
  Learn the systems that create a sustainable food culture.

- **Hemp Industry & Science**
  Explore the potential of the hemp industry and its products.

- **Adventure Ecotourism**
  Bring adventure to clients while respecting the environment.