

What are Animal and Veterinary Sciences About?

Animal Science is the study of the biology of domestic animals. Veterinary Science encompasses veterinary medicine, biomedical research, and public health. Through coursework, internships and research experiences, students in this major learn about the biology and management of farm, laboratory, zoo, and companion animals; human perspectives on animal well-being; and the intersection of environmental, animal, and human health. The mission of the department *is to provide high quality educational experiences, excellent scholarship and service to the community focused on domestic animals and our responsibilities to their health and welfare as they serve humankind through agriculture, recreation, companionship and biomedical science. We provide the opportunity to obtain a meaningful Bachelor of Science degree that will serve the individual well in the future.*



Students in Animal and Veterinary Sciences (ASCI) may develop a program of study under one of the FOUR available options. Each option provides:

- A science-based curriculum that includes animal biology, nutrition, genetics, animal health, biology, chemistry, and math, coupled with a liberal education.
- Opportunities to participate in undergraduate research, or develop internships related to animal science.
- A combination of classroom, laboratory, and hands-on experience.
- A positive and friendly environment so students can maximize achievements and place themselves in a favorable position for subsequent career development.

Options in Animal and Veterinary Sciences

1. Pre-Veterinary/Pre-Professional Science

Students completing this option are prepared to enter graduate, veterinary, dental, pharmacy, or medical school. The pre-professional option has a very strong science base, yet has sufficient flexibility to allow for advanced study related to animal production or companion animals. Established admissions relationships exist with several veterinary colleges.

2. Zoo, Exotic, and Companion Animals

This option is designed for students who are primarily interested in zoo, exotic, and companion animals and considering careers in these industries after graduation. Courses are offered on the management, care, breeding, health, and training of zoo, exotic, and companion animals with hands-on experiences available through summer course work and internships locally and across the country.



3. Equine Science

This option offers specialized courses on the care, management, breeding, and health of horses. Students are provided with the mix of science, business, and personal skills to succeed with careers in the equine industry. Equine courses, research, and internships are supported by UVM facilities on and off campus.

4. Dairy Science/Management

Students with an interest in dairy production or veterinary medicine benefit from ASCI's signature course: CREAM (the Cooperative for Real Education in Agricultural Management). CREAM provides a two-semester (or summer) hands-on experience managing a herd of cows on campus. The W. H. Miner Agricultural Research Institute in Chazy, NY, hosts the semester-long Advanced Dairy Management course each spring.

Department of Animal and Veterinary Sciences

Students are not limited to taking courses within only one option.

The range of elective courses and minors appropriate for Animal and Veterinary Sciences majors is a reflection of the diversity of animal related employment and careers. Our programs have considerable flexibility so that students can develop a minor that matches their interests and career plans. A few possible minors may include: chemistry, English, marketing, political science, entrepreneurship, or wildlife biology.



Horse and Dairy Facilities

In addition to the offices, research laboratories, and classrooms in Terrill Building, the Department maintains teaching/research units at the UVM Paul R. Miller Research and Educational Center (MREC) and the UVM Morgan Horse Farm in Middlebury, Vt. The MREC, one mile from campus, accommodates classes and major livestock activities including equestrian events. The facility is being updated by construction of a new Milking Center, new Dairy Research Barn, and a new barn for the student-run *CREAM* program. The Ellen A. Hardacre Center is a horse barn with 22 horse stalls, and an indoor riding arena. It houses the UVM program as well as horses for the student-run co-operative barn.





Student Activities

Listed below are just a few of the extra-curricular activities in which ASCI students at the University of Vermont are participating:

- Alpha Zeta Agricultural Honorary Society
- Dairy Club
- Dressage Team
- Intercollegiate Equestrian Team
- Intramural Sports Clubs
- Pre-Veterinary Club/ Pre-Medical Club
- Top Cats Choral Group
- UVM Rescue Squad
- Vermont Students for Animal Protection (VSAP)

Financial Aid

There are numerous opportunities available for students to obtain financial assistance, including scholarships, awards, work-study, and jobs. If you have any questions concerning the availability of aid, either in the form of grants, low interest loans and/or work-study, you may call or write to:

Student Financial Services
 221 Waterman Building
 85 South Prospect
 University of Vermont
 Burlington, Vermont 05405-0160
 Telephone: (802) 656-5700
<http://www.uvm.edu/~stdfinsv/>



The University of Vermont

Faculty and Areas of Expertise

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|-----------------------|---|
| J. Barlow | Cattle Infectious Disease,
Veterinary Science |
| R. Blauwikel | Laboratory Animal Medicine,
Veterinary Science |
| P. F. Erickson | Zoo, Exotic, and Companion
Animals, Veterinary Science |
| S. Greenwood | Nutrition |
| D. E. Kerr | Molecular Genetics/
Mammary Gland Biology |
| J. Kraft | Dairy Lipids & Human Health |
| S. McKay | Genetics and Genomics |
| N. Purdie | Dairy Nutrition and
Management |
| C. Rohan | Equine Science |
| J. Shaw | Dog Training & Behavior |
| J. M. Smith | Animal Health & Well-Being,
Veterinary Science |
| D.H. Townson | Female Reproductive
Physiology |
| J. Wilkinson | Equine Science,
Veterinary Science |
| F. Q. Zhao | Molecular Genetics /
Lactation Physiology |

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**FOR ADDITIONAL INFORMATION
PLEASE CONTACT:**

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Department of Animal and Veterinary Sciences



Options:

- ***Pre-Veterinary/Pre-Professional***
- ***Zoo, Exotic, and Companion Animals***
- ***Equine Science***
- ***Dairy Science/Management***

