Animal and Veterinary Science

SCIENCE/PREVETERINARY OPTION

Prepare for a career as a veterinary health professional.

THIS MAJOR IS A GOOD FIT
IF YOU CAN SEE YOURSELF:

COMBINING YOUR INTERESTS in science, medicine, and animals

STUDYING HEALTH, nutrition, and reproduction in livestock and companion animals

TAKING THE FAST TRACK to a doctor's degree in veterinary medicine

Immerse yourself in the study of animal reproduction, nutrition, growth, and health. Learn to identify illnesses in animals and understand courses of treatment.

This rigorous, science-based curriculum enables you to fulfill all the academic requirements for application to an accredited 4-year college of veterinary medicine. You may apply to a veterinary school after your third year of undergraduate studies.

INSIDE THE CLASSROOM

Explore animal sciences such as anatomy, nutrition, and reproduction, including hands-on sessions in on-campus laboratories and animal centers. Our beef center has more than 50 purebred cows, dairy center about 100 milking Holsteins, and sheep center over 100 breeding Suffolk ewes. Senior year, you will integrate lessons from business and animal science when you evaluate real-world issues. You might determine the efficiency of a cow-calf operation, examine how horses are bred and sold, or develop a plan to market a swine vaccine.

OUTSIDE THE CLASSROOM

INTERN. Strengthen your credentials for veterinary school with practical experiences like these: UI CAINE VETERINARY TEACHING CENTER Gain experience in multiple areas of food animal medicine and surgery . . . UI NANCY M. CUMMINGS RESEARCH, EXTENSION AND EDUCATION CENTER Collect data to assess the health and well-being of 400 cross-bred mother cows . . . VETERINARY CLINIC Shadow medical staff and help with intake and diagnosis.

STUDY ABROAD. Deepen your understanding of your major—and the world—in countries like these: MEXICO Tour a family-owned ranch . . . TAIWAN Explore livestock care in another country . . . AUSTRALIA Visit a country that prizes its cattle and sheep herds.

DO RESEARCH. Make hands-on discoveries. Track the health status of newborn dairy calves by monitoring blood and fecal samples. Participate in lactation research in an agricultural biotechnology lab. Collect data on the respiratory diseases of bighorn sheep. Care for animals at the beef, dairy, and sheep centers. Paid positions are available.

GET INVOLVED. Network and have fun. PRE-VET CLUB Visit humane societies, clinics, horse rescues, and the Wolf Research Center. Receive guidance on getting into veterinary schools . . . DAIRY CLUB, STUDENT IDAHO CATTLE ASSOCIATION, BLOCK AND BRIDLE Visit farms, ranches, and food processing plants. Show livestock and learn from industry experts.

FASTFACT

The UI Northwest Equine Reproduction Laboratory is internationally acclaimed for research on early pregnancy signals in mares, very early embryonic survival, and the birth of the first cloned mule.

CAREER OPPORTUNITIES

With a degree in veterinary medicine (DVM), starting salaries are as high as $60,000.

VETERINARIAN. Treat companion animals, farm livestock, horses, and other animals. Open your own practice or join an existing practice. You might specialize in surgery or offer advanced care such as insulin injections, hip replacement, cataract extraction, or pacemaker insertion.

FOOD INDUSTRY VETERINARIAN. Help ensure the quality, quantity, and security of food supplies by maintaining the health of livestock and inspecting meat.

If you choose not to pursue a DVM degree, you will still find starting salaries as high as $40,000 in careers like these:

VETERINARY TECHNICIAN. Assist veterinarians in many medical procedures.

RESEARCH SUPPORT SCIENTIST. Prepare experiments and collect and analyze data.

ANIMAL KEEPER. Monitor the health and well-being of animals used for research.

SALES REPRESENTATIVE. Work for a pharmaceutical company selling vaccines and other supplies.

CONTINUE YOUR EDUCATION. Pursue an advanced degree in disciplines such as genetics and breeding, nutrition, reproductive physiology, or growth physiology.

FIND OUT MORE ABOUT THE UNIVERSITY OF IDAHO ANIMAL AND VETERINARY SCIENCE MAJOR

WWW.CALS.UIDAHO.EDU/AVS

ANIMAL AND VETERINARY SCIENCE SCIENCE/PREVETERINARY OPTION

4-YEAR PLAN 2008-09

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
FALL	**AVS 101** 2 Animal & Veterinary Orientation	**AVS 271** 4 Anatomy & Physiology	**AVS 305** 4 Animal Nutrition	**AVS 330** 3 Genetics of Livestock Improvement
	AVS 109 3 Science of Animals that Serve Humanity	**Chem 112** 5 Principles of Chemistry II	**AVS 452** 4 Physiology of Reproduction	**AVS 471** 3 Animal Disease Management
	CORE 103-149 4 Core Discovery Course	**Biol 116** 4 Organisms & Environments	**MMBB 300** 3 Biochemistry	**AVS 468** 3 Companion Animal Biology & Management *or* **AVS 472** 3 Dairy Cattle Management *or* **AVS 478** 3 Swine Production
	Engl 101 3 Intro. to College Writing	**Comm 101** 2 Fundamentals of Public Speaking	**Elective** 3 Elective—Core	**Biol/MMBB** 3 Elective—Upper-division Biol *or* MMBB
	Math 143 3 Pre-calculus Algebra & Analytic Geometry	**Elective** 3 Elective—Core	**Electives** 2-3 Electives	**Elective** 3 Elective
	TOTAL 15	**TOTAL** 18	**TOTAL** 16-17	**TOTAL** 15
SPRING	**AVS 209/210** 4 Science of Animal Husbandry/Lab	**Chem 277/278** 4 Organic Chemistry I/Lab	**AVS 306** 4 Feeds & Ration Formulation	**AVS 450** 1 Issues in Animal Agriculture
	Biol 115 4 Cells & the Evolution of Life	**Engl 313** 3 Business Writing *or* **Engl 317** 3 Technical Writing	**Gene 314** 3 General Genetics	**AVS 466** 3 Horse Science & Management *or* **AVS 474** 3 Beef Cattle Science *or* **AVS 476** 3 Sheep Science & Management
	Chem 111 4 Principles of Chemistry I	**Phys 111** 4 General Physics I	**MMBB 154/155** 4 Introductory Microbiology/Lab	**Chem 372** 3 Organic Chemistry II
	CORE 153-199 3 Core Discovery Course	**Stat 251** 3 Statistical Methods	**Phys 112** 4 General Physics II	**Elective** 3 Elective—International
	Engl 102 3 College Writing & Rhetoric	**Elective** 3 Elective—Core		**Electives** 6 Electives
	TOTAL 18	**TOTAL** 17	**TOTAL** 15	**TOTAL** 16

Total for degree = 132 credits. Course offerings may change from year to year. Always check the current course catalog.

"The department [Animal and Veterinary Science] helps you find internships. There always seems to be a lending hand for anything."

JACKIE OWENS, *science/preveterinary option*

TO LEARN MORE
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University of Idaho
College of Agricultural and Life Sciences