

Animal and Veterinary Science

DAIRY SCIENCE OPTION

Be a leader in the dairy industry.

THIS MAJOR IS A GOOD FIT

IF YOU CAN SEE YOURSELF:

PRODUCING ESSENTIAL DAIRY PRODUCTS such as milk, butter, and cheese

IMPROVING ANIMAL NUTRITION and reproduction

MAKING BUSINESS DECISIONS about dairy production, manufacturing, and management

Learn the techniques of efficiently producing high-quality dairy products. Dairy science teaches you all aspects of milk production, from the physiology of lactation to the management of a modern dairy. Learn skills to respond to market forces that challenge the dairy industry to maximize efficiency, produce a variety of healthful products, and protect the air, water, and soil.

Our faculty members conduct critical research for the dairy industry—Idaho's leading agricultural industry—exploring such topics as reproduction efficiency, milk synthesis, and cow nutrition.

INSIDE THE CLASSROOM

Courses in chemistry, physiology, microbiology, and animal science provide a foundation that leads to basic and advanced dairy courses. Explore artificial insemination, pregnancy diagnosis, ultrasound technology, drug administration, diagnostic testing, feeding, and milking. Help care for more than 100 milking Holsteins at our dairy research and teaching center. Senior year, you will draw on everything you've learned when you and your teammates assess the management of a real dairy and recommend improvements; a panel of dairy industry experts will judge your work.

OUTSIDE THE CLASSROOM

INTERN. Get practical experiences like these: **ON-CAMPUS DAIRY CENTER** Choose a short- or long-term internship. Pull calves and shadow the herd manager . . . **DAIRY FARM** Rotate through all phases of the operation from preparing feed to treating sick animals . . . **MILK PROCESSOR** Participate in the business from equipment maintenance to marketing.

STUDY ABROAD. Deepen your understanding of your major—and the world—in countries like these: **MEXICO** Visit family-owned dairy farms . . . **TAIWAN** Tour food production facilities . . . **FRANCE** Spend time in a country that prizes its cheese.

DO RESEARCH. Make hands-on discoveries. Collect and analyze feed samples in the dairy nutrition lab. Analyze the hormone composition of blood in the bovine reproductive physiology lab. Participate in lactation research in an agricultural biotechnology lab. Care for the animals at the dairy center. Paid positions are available.

GET INVOLVED. Network and have fun. **DAIRY CLUB** Sponsor the dairy symposium and judging contests, compete in regional and national dairy challenges, attend Western Dairy Herd conference, participate in spring field trips and cheese sales . . . **LIVESTOCK AND DAIRY JUDGING TEAMS, PRE-VET CLUB, AGRIBUSINESS CLUB** . . . Visit farms, ranches, and food processing plants. Evaluate livestock and dairy products. Meet potential employers.

FASTFACT

The University of Idaho team won top ranking in the North American Intercollegiate Dairy Challenge.

CAREER OPPORTUNITIES

Almost all of our graduates receive job offers upon graduation, with starting salaries of up to \$50,000. Dairy scientists generally work for the dairy industry.

Here are a few possibilities:

PRODUCTION MANAGER. Manage the production processes of a dairy farm or manufacturing plant.

BUSINESS OWNER. Direct all operations of a dairy farm or processing plant.

RESEARCH TECHNICIAN. Be a research support scientist or laboratory technician managing the care and well-being of animals used to advance the dairy industry.

CONSULTANT. Provide in-field technical assistance in animal breeding, health, or nutrition for a large, integrated dairy farm, pharmaceutical firm, or dairy processing company.

ANALYST. Gather and interpret data about the dairy industry to support lobbying efforts.

COMBINE YOUR EDUCATION. A second language can open doors to careers with companies that do business internationally. Take additional courses in agribusiness, agricultural economics, or food science.

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

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

WWW.UIDAHO.EDU/CALS/AVS

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	
FALL	AVS 109 4 Science of Animals that Serve Humanity	AgEc 278 4 Farm & Agribusiness Management	AVS 305 3 Animal Nutrition	AVS 450 1 Issues in Animal Agriculture	
	Comm 101 2 Fundamentals of Public Speaking	AVS 172 2 Principles & Practices of Dairy Science	AVS 330 3 Genetics of Livestock Improvement	AVS 452 4 Physiology of Reproduction	
	Engl 101 3 Intro. to College Writing	AVS 271 3 Anatomy & Physiology	Elective 3 Elective—Core	AVS 472 3 Dairy Cattle Management	
	ISEM 101 3 Integrated Seminar or Elective	AVS 273 1 Anatomy & Physiology Lab	Elective 3 Elective—International	Electives 8 Electives	
	Elective—Humanities or Social Sciences	Chem 275 3 Carbon Compounds	Elective 3 Elective		
	Math 143 3 Pre-calculus Algebra & Analytic Geometry	Econ 202 3 Principles of Economics			
	TOTAL 15	TOTAL 16	TOTAL 15	TOTAL 16	
	SPRING	AVS 209 4 Science of Animal Husbandry	AgEc 289 3 Agricultural Markets & Prices	AVS 306 4 Feeds & Ration Formulation	AVS 411 3 Ruminant Nutrition or AVS 451
		Biol 115 4 Cells & the Evolution of Life	AVS 222 3 Animal Reproduction & Breeding	AVS 413 3 Physiology of Lactation	Endocrine Physiology
		Chem 111 4 Principles of Chemistry I	MMBB 154/155 4 Introductory Microbiology/Lab	Engl 313 3 Business Writing or Engl 317	AVS 471 3 Animal Disease Management
Engl 102 3 College Writing & Rhetoric		Stat 251 3 Statistical Methods	Elective 3 Elective—Core	AVS 475 3 Advanced Dairy Management	
ISEM 101 3 Integrated Seminar or Elective		Elective 3 Elective—Core	Elective 3 Elective	FST 429 4 Dairy Products	
Elective—Humanities or Social Sciences				Electives 6 Electives	
TOTAL 18		TOTAL 16	TOTAL 16	TOTAL 19	

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

TO LEARN MORE
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