

# ANIMAL SCIENCE MAJOR: DAIRY MANAGEMENT OPTION (B.S.)

<https://colsa.unh.edu/agriculture-nutrition-food-systems/program/bs/animal-science-major-dairy-management-option>

## Description

The ANSC: dairy management option is designed to provide students with solid training in areas important to the successful management of a dairy enterprise, for employment in related agribusinesses (e.g., pharmaceutical and feed industries), or for those wishing to pursue additional training leading to the M.S. or Ph.D. degree in dairy science or its related disciplines. Dairy management students receive training in areas such as nutrition, reproduction, diseases, genetics, lactation physiology, forages, agribusiness finance, personnel management, computer science, and public relations. The Fairchild Dairy Teaching and Research Center and the Burley-DeMerritt Organic Dairy Research Farm are modern dairy facilities. The Fairchild Dairy houses 85 lactating Holstein cows plus a similar number of non-lactating animals. The Burley-DeMerritt Farm houses 50 lactating Jersey cows plus a small number of non-lactating animals. For additional information and answers to questions regarding the option in dairy management, email Dr. Peter Erickson.

## Requirements

### Major Requirements

Code	Title	Credits
<b>Foundation Courses</b>		
BIOL 411	Introductory Biology: Molecular and Cellular	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
CHEM 403	General Chemistry I	4
CHEM 404	General Chemistry II	4
BIOL 528	Applied Biostatistics I	4
or BIOL #555	Experimental Design and Analysis Laboratory (EDAL)	
BMS 503 & BMS 504	General Microbiology and General Microbiology Laboratory	5
Select from the following:		5
BMCB 501	Biological Chemistry	
or BMCB 658	General Biochemistry	
& BMCB 659	and General Biochemistry Lab	

### Requirements for All Animal Science/Dairy Management Option Majors

AAS 425	Introduction to Dairy Herd Management	4
AAS 439	Fundamentals of Animal Health	2
ANSC 406	Careers in Animal Science	1
ANSC 511	Anatomy and Physiology	4
ANSC 512	Anatomy and Physiology	4
ANSC 543	Technical Writing in Animal Sciences (or equivalent) <sup>1</sup>	2

ANSC 609	Principles of Animal Nutrition	4
ANSC 612	Genetics of Domestic Animals	4
Total Credits		55

<sup>1</sup> ENGL 501 Introduction to Creative Nonfiction, ENGL 502 Professional and Technical Writing, ENGL 503 Persuasive Writing or ENGL 419 Introduction to Literary Analysis (WI)

Students are responsible for the completion of the animal science foundation courses and the requirements for all animal science majors (both lists of courses above).

Students interested in graduate school should take two semesters of Organic Chemistry and one semester of Biochemistry.

**Animal Science: Dairy Management Option B.S. students must also complete:**

Code	Title	Credits
AAS 423	Dairy Selection	2
AAS 432	Introduction to Forage and Grassland Management	3
AAS 574	Dairy Cattle Disease Seminar	2
ANSC 602	Animal Rights and Societal Issues	4
ANSC 650	Dairy Industry Travel Course	1
ANSC 698	Cooperative for Real Education in Agricultural Management (CREAM) (two-semester course)	4
ANSC 708	Ruminant Nutritional Physiology	3
ANSC 710	Dairy Nutrition	4
ANSC 715	Physiology of Lactation	4
or ANSC 724	Reproductive Management and Artificial Insemination	
ANSC 727	Advanced Dairy Management I	4
ANSC 728	Advanced Dairy Management II (will also fulfill the Capstone requirement)	4
EREC 411	Environmental and Resource Economics Perspectives	4
Total Credits		39

### GPA Requirements for All Students in Animal Science

Students will be required to earn a C- or better in the foundation courses and all required courses for the animal science major to receive credit toward graduation. Students failing to do this will need to retake the course in order to receive credit.