

# Dairy Science

## Management or Science Option

University of Wisconsin-River Falls  
[www.uwrf.edu](http://www.uwrf.edu)

**D**airy Science is the application of genetics, physiology, nutrition, economics, and other supporting disciplines to: the production, health, and management of dairy cattle; the production of high-quality milk; and the operation of dairy farm enterprises as financially profitable and environmentally responsible businesses.

### Goals and Objectives

- to **provide quality instruction** for students in basic dairy science and applied principles of dairy production and management
- to help students **develop** skills for discovering, evaluating, and adapting scientific information and technology throughout their careers
- to **enhance** students' abilities to communicate effectively
- to **engage** students in the application of scientific principles to problemsolving in a real-world setting.

### Program and/or Curriculum

The following core courses are required in the major:

DASC 120 Orientation to Dairy Science  
 ANSC 231 Principles of Nutrition  
 ANSC 232 Applied Feeds and Feeding  
 ANSC 257 Genetics  
 ANSC 260 Animal Physiology  
 DASC 306 Dairy Production  
 ANSC 345 Animal Health  
 ANSC 346 Principles of Animal Breeding  
 DASC 404 Lactation and Milk Quality  
 DASC 406 Advanced Dairy Management  
 ANSC 433 Advanced Nutrition or DASC 436 Dairy Cattle Nutrition  
 ANSC 448 Physiology of Reproduction  
 DASC 485 Seminar in Dairy Science

**Faculty** The animal and food science department offers majors in animal science-equine emphasis, animal science-meat animal emphasis, animal science-veterinary technology emphasis, dairy science, and food science. The faculty and staff consists of fourteen full-time members with specific expertise in various animal science disciplines including nutrition, reproduction, genetics, breeding, physiology, animal health, livestock management, and meat & dairy products. In addition the faculty has a broad base of experience with all common production animal species. Two of the current faculty members have won campus-wide "Distinguished Teacher of the Year" awards.

**Facilities** The College of Agriculture, Food and Environmental Sciences maintains two laboratory teaching farms which are heavily used for course work by the Animal Science faculty. These farms include dairy, beef, swine, sheep, poultry, and equine enterprises. In addition the Animal and Food Science Department operates an on-campus dairy processing plant and a fully equipped meat laboratory with slaughter, cutting, and processing facilities.

### Career Opportunities

• dairy herd manager/owner • nutrition consultant/representative • dairy cattle classifier • dairy mating specialist • dairy sire analyst • dairy records association manager • breed association representative • milk plant field representative • milk inspector • milking equipment representative • pharmaceutical sales • public relations specialist • research assistant • extension youth specialist • agricultural extension agent • agricultural journalist • agricultural loan officer

Most of these positions offer significant and early opportunity for advancement. The demand for personnel is consistently high in all the above areas. In addition the Dairy Science-Science Option



# DAIRY SCIENCE MAJOR

Department of Animal and Food Science  
242 Agriculture Science Hall  
(715) 425-3704



## Bachelor of Science Degree. Academic Advising Plan. Management (M) and Science (S) Options.

Two of many possible four-year schedules of classes.

<b>Semester 1 (Fall)</b>	(M) (S)	<b>Semester 5 (Fall)</b>	(M) (S)
ENGL 100 (CW) Academic Reading and Writing ....	3 3	AGBI 251 Agricultural Biochemistry .....	3 -
ANSC 111 Introduction to Animal Science.....	3 3	ANSC 260 Animal Physiology.....	4 4
BIOL 150 General Biology.....	3 -	CHEM 361 Biochemistry I.....	- 3
CHEM 121 General Chemistry I and Lab .....	- 5	DASC 306 Dairy Production .....	3 3
MATH 146 College Algebra.....	3 3	PHYS 151 General Physics I .....	- 4
Humanities/Fine Arts course (HF) .....	3 3	Ethical Citizenship course (EC) .....	3 3
Total semester credits .....	15 17	P ED activity course (HW) .....	.5 -
		Total semester credits.....	13.5 17
<b>Semester 2 (Spring)</b>	(M) (S)	<b>Semester 6 (Spring)</b>	(M) (S)
BIOL 150 General Biology .....	- 3	ANSC 341 Biometrics .....	- 3
CHEM 121 General Chemistry I .....	5 -	ANSC 345 Animal Health.....	2 2
CHEM 122 General Chemistry II .....	- 5	ANSC 346 Principles of Animal Breeding.....	3 3
MATH 147 College Algebra and Trigonometry -	3 3	AGEC 300 Level (Select one) .....	3 -
SCTA 101 Fund. Of Oral Communication ....	3 3	BIOL 324 Microbiology .....	- 4
Professional Studies in CAFES.....	3 -	PHYS 152 General Physics II .....	- 4
Social and Behavioral Science course (SB) .....	3 -	P ED activity course (HW).....	.5 .5
P ED 108 (HW) Health and Fitness for Life.....	1 1	Directed elective course .....	3 -
Total semester credits .....	15 15	Free elective course .....	3 -
		Total semester credits .....	14.5 16.5
<b>Semester 3 (Fall)</b>	(M) (S)	<b>Summer</b>	(M) (S)
AGEC 230 Ag Economics.....	3 3	Internship .....	4 -
ANSC 231 Principles of Nutrition .....	3 3	<b>Semester 7 (Fall)</b>	(M) (S)
CHEM 231/236 Organic Chemistry I and Lab .....	- 4	AGEC 300 Level course .....	3 -
CHEM 230 General Organic Chemistry .....	3 -	ANSC 448 Reproductive Physiology .....	3 3
DASC 120 Orientation to Dairy Science.....	1 1	DASC 404 Lactation and Milk Quality.....	3 3
ENGL 200 (CA) Investigating Ideas: Reading, Writing, and the Disciplines.....	3 3	P ED activity course (HW).....	- .5
Social and Behavioral Science course (SB) .....	3 3	Global Perspective course (GP).....	3 3
Total semester credits .....	16 17	Professional Studies in CAFES .....	- 3
		Social and Behavioral Science course (SB) .....	- 3
<b>Semester 4 (Spring)</b>	(M) (S)	Directed elective .....	3 -
ANSC 232 Applied Feeds and Feeding.....	3 3	Total semester credits .....	15 15.5
ANSC 257 Genetics .....	3 3	<b>Semester 8 (Spring)</b>	(M) (S)
BIOL 230 General Zoology .....	- 3	DASC 406 Advanced Dairy Management ....	3 3
CHEM 232/237 Organic Chemistry II and Lab.....	- 4	DASC 436 Dairy Cattle Nutrition	
Professional Studies in CAFES.....	3 -	or ANSC 433 Advanced Nutrition.....	3 3
Humanities/Fine Arts course (HF) .....	3 -	DASC 485 Seminar in Dairy Science.....	1 1
Diversity course (ACD) .....	3 3	Humanities/Fine Arts course (HF) .....	- 3
Total semester credits .....	15 16	Multidisciplinary (MD) .....	3 3
		Professional Studies in CAFES .....	- 3
		Directed elective course .....	3 -
		Total semester credits.....	13 16

### Summary of Degree Requirements

University Requirements.....	6 cr.
General Education.....	40-42 cr.
Foundation Courses in Agriculture .....	12 cr.
Major Requirements .....	62-71 cr.
Total Credit Requirement.....	120 cr.
May 2007	