

Animal Science

Meat Animal Emphasis
Management or Science Option

University of Wisconsin-River Falls
www.uwrf.edu

The Animal and Food
Science Department

conducts one of the leading undergraduate comprehensive animal science programs in the nation. Our students are actively involved in scholastic and extra-curricular activities at local, regional, national, and international levels.

Goals and Objectives

- to **provide quality instruction** to students in basic animal science and applied principles of meat animal 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 effectively communicate
- to **engage** students in the application of scientific principles to problem-solving in a real-world setting.

Program and/or Curriculum The following courses are required in the major:

ANSC 231	Principles of Nutrition
ANSC 232	Applied Feeds and Feeding
ANSC 238	Meat and Meat Products
ANSC 257	Genetics
ANSC 260	Animal Physiology
ANSC 345	Animal Health
ANSC 346	Principles of Animal Breeding
ANSC 366 or 367	Swine Production or Beef Production
ANSC 433	Advanced Nutrition
ANSC 448	Physiology of Reproduction
ANSC 485	Seminar in Animal Science
ANSC 240, 365-368 or 467	(choose one)

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 and 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 the campus-wide Distinguished Teacher of the Year award.

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 The major will prepare students for a variety of positions in animal agriculture. Some examples of entry-level jobs include: • swine herd management • feedlot management • poultry flock management • cattle and swine semen sales and service • cattle and swine breed association representative • feed sales representative • nutrition consultant • pharmaceutical sales • livestock equipment sales • livestock buyer • meat inspection • meat grading • meat quality control • meat plant production line management • extension agent/specialist • animal health inspector • food safety inspector. 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 animal science-science option prepares students for entry into either graduate school or veterinary college. Attainment of these advanced degrees offers numerous opportunities for rewarding careers such as university teaching, public or private research and development, private veterinary practice, and federal or state veterinary practice.



ANIMAL SCIENCE MAJOR - MEAT ANIMAL EMPHASIS

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.

Semester 1 (Fall) (M) (S)

ANSC 111	Intro to Animal Science.....	3	3
BIOL 150	General Biology.....	3	-
CHEM 121	General Chemistry I and Lab	-	5
ENGL 100	Academic Reading and Writing	3	3
MATH 146	College Algebra.....	3	3
Humanities/Fine Arts course (HF)	.....	3	3
Total semester credits.....		15	17

Semester 2 (Spring) (M) (S)

BIOL 150	General Biology.....	-	3
CHEM 121	General Chemistry I and Lab	5	-
CHEM 122	General Chemistry II and Lab	-	5
MATH 147	College Algebra and Trigonometry		
or MATH 149	Precalculus (4 credits)	-	3
P ED 108	Health and Fitness for Life.....	1	-
SCTA 101	Fund. of Oral Communication	3	3
Social and Behavioral Science course (SB)	.....	3	-
Professional Studies in CAFES	.....	3	3
Total semester credits.....		15	17

Semester 3 (Fall) (M) (S)

ANSC 231	Principles of Nutrition	3	3
ANSC 257	Genetics	3	3
AGEC 230	Agricultural Economics I.....	3	3
CHEM 230	General Organic Chemistry	3	-
CHEM 231/236	Organic Chemistry I and Lab	-	4
ENGL 200	Investigating Ideas: Reading,		
	Writing, and the Disciplines.....	3	3
P ED 108	Health and Fitness for Life.....	-	1
Total semester credits.....		15	17

Semester 4 (Spring) (M) (S)

ANSC 232	Applied Feeds and Feeding	3	3
ANSC 238	Meat and Meat Products	3	3
CHEM 232/237	Organic Chemistry II & Lab.....	-	4
Humanities/Fine Arts course (HF)	.....	3	3
Social and Behavioral Science course (SB)	.....	3	-
Professional Studies in CAFES.....		3	3
Total semester credits.....		15	16

Semester 5 (Fall) (M) (S)

AGBI 251	Agricultural Biochemistry.....	3	-
ANSC 211	Livestock and Meat Evaluation....	3	-
ANSC 341	Biometrics	-	3
ANSC 346	Principles of Animal Breeding.....	3	3
BIOL 230	General Zoology	-	3
CHEM 361	Biochemistry I	-	3
PHYS 151	General Physics I	-	4
Directed elective	.....	3	-
Ethical Citizenship course (EC).....		3	-
Physical education activity course.....		.5	.5
Total semester credits.....		15.5	16.5

Semester 6 (Spring) (M) (S)

ANSC 260	Animal Physiology	4	4
ANSC 345	Animal Health.....	2	-
BIOL 324	Microbiology	4	4
PHYS 152	General Physics II	-	4
AGEC 300 level course	.....	3	-
Diversity course	.....	3	3
Total semester credits		16	15

Semester 7 (Fall) (M) (S)

ANSC 345	Animal Health.....	-	2
ANSC 365-368	Livestock Production (Select one)	3	3
ANSC 433	Advanced Nutrition.....	3	3
ANSC 448	Reproductive Physiology	3	3
AGEC 300 level course	.....	3	-
Directed elective	.....	3	-
Physical education activity course .....		.5	.5
Social and Behavioral Science course (SB)		-	3
Total semester credits.....		15.5	14.5

Semester 8 (Spring) (M) (S)

ANSC 485	Seminar in Animal Science.....	1	1
ANSC 365-368	Livestock Production course		
or ANSC 467	Feedlot Management.....	3	3
Social and Behavioral Science course (SB)		-	3
Ethical Citizenship course (EC).....		-	3
Global Perspectives course (GP).....		3	3
Multidisciplinary Inquiry course (MD)		3	3
Elective	.....	3	-
Elective	.....	3	-
Total semester credits		16	16

Summary of Degree Requirements

University Requirements.....	6 cr.
General Education	40-42 cr.
Foundation Courses in CAFES	12 cr.
Major Requirements and Electives.....	60-70 cr.
Credits to Degree.....	120 cr.