DAIRY AND FOOD ANIMAL MANAGEMENT, BS

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (http://guide.wisc.edu/undergraduate/#requirementsforundergraduatestudytext) section of the *Guide*.

General Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A Part B *
- Ethnic Studies *
- Quantitative Reasoning Part A Part B *

* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

COLLEGE REQUIREMENTS FOR ALL CALS BS DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
First year seminar (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#CALSFirstYearSeminarCourses)		1
International studies (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#CALSInternationalStudiesCourses)		3
Physical science fundamentals		4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
Biological science		5
Additional science (biological, physical, or natural)		3
Science breadth (biological, physical, natural, or social)		3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "major requirements") (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#CALSCapstoneRequirement)		

SUMMARY OF MAJOR REQUIREMENTS

Code	Title	Credits
Major Requirements		
Foundation		19-25
Major Core		8
Major Depth and Breadth		36
Internship		1
Major Capstone		2-3
Total Credits		**66-73**

DAIRY & FOOD ANIMAL MANAGEMENT MAJOR REQUIREMENTS

Code	Title	Credits
Foundation		
Mathematics		
Complete one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry	
Statistics		
STAT 301	Introduction to Statistical Methods	3
or STAT 371	Introductory Applied Statistics for the Life Sciences	
Chemistry		*5-9*

Complete one of the following:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
Biology		*5*
Complete one of the following:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	
Biochemistry		*3*
BIOCHEM 301	Survey of Biochemistry	
or BIOCHEM 501	Introduction to Biochemistry	
Major Core		
AN SCI/DY SCI 101	Introduction to Animal Sciences	3
AN SCI/DY SCI 102	Introduction to Animal Sciences Laboratory	1
A A E 101	Introduction to Agricultural and Applied Economics	4
or ECON 101	Principles of Microeconomics	
Major Depth and Breadth		
Animal Science		*12*
Complete 12 credits from the following:		
AN SCI 245	Animal Welfare	
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	
AN SCI/ DY SCI 320	Animal Health and Disease	
AN SCI 336	Animal Growth and Development	
AN SCI/ DY SCI 361	Introduction to Animal and Veterinary Genetics	
AN SCI/ DY SCI 363	Principles of Animal Breeding	
AN SCI 366	Concepts in Genomics	
AN SCI/ DY SCI 373	Animal Physiology	
AN SCI/ DY SCI 414	Ruminant Nutrition & Metabolism	
AN SCI 415	Application of Monogastric Nutrition Principles	
AN SCI/ DY SCI 434	Reproductive Physiology	
DY SCI 378	Lactation Physiology	
Food and Animal Agriculture		*12*
Complete 12 credits from the following:		
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	
AN SCI/ FOOD SCI 321	Food Laws and Regulations	
AN SCI/BSE 344	Digital Technologies for Animal Monitoring	
AN SCI/ DY SCI 370	Livestock Production and Health in Agricultural Development	
AN SCI 420	Microbiomes of Animal Systems	
AN SCI 431	Beef Cattle Production	
AN SCI 432	Swine Production	
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	
AN SCI/ FOOD SCI 515	Commercial Meat Processing	
DY SCI 233	Dairy Herd Management I	
DY SCI 234	Dairy Herd Management II	
DY SCI 534	Reproductive Management of Dairy Cattle	
AGRONOMY 302	Forage Management and Utilization	
FOOD SCI 301	Introduction to the Science and Technology of Food	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
or SOIL SCI 301	General Soil Science	
Business, Economics, and Management		*12*
Complete the following two courses:		
A A E 320	Agricultural Systems Management	
A A E 419	Agricultural Finance	
Complete 6 credits from the following:		
A A E 322	Commodity Markets	
A A E 335	Introduction to Data Analysis using Spreadsheets	
A A E/ECON 421	Economic Decision Analysis	
A A E 422	Food Systems and Supply Chains	
ACCT I S 300	Accounting Principles	
GEN BUS 301	Business Law	
MARKETNG 300	Marketing Management	
M H R 300	Managing Organizations	
M H R 305	Human Resource Management	
Internship		**1**
Complete the following course:		
AN SCI 399	Coordinative Internship/ Cooperative Education	
Capstone		**2-3**
Complete one of the following:		
AN SCI 435	Animal Sciences Proseminar	
DY SCI 535	Dairy Farm Management Practicum	
Total Credits		**66-73**

UNIVERSITY DEGREE REQUIREMENTS

Total Degree — To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.