ANIMAL SCIENCE BS

More Information

Advising Requirement

Advising is mandatory for this program. Consult your department advisor or program coordinator for information.

E-advising Tools

Students are encouraged to use the interactive e-advising tools that have been designed to help them graduate within four years. These tools can be accessed through the Student Center.

The Bachelor of Science in Animal Science prepares students for diverse careers involving all aspects of food animal agriculture. Careers in food animal production, support industries such as animal health and nutrition companies, and pre-professional preparation for graduate or professional school studies are all possible directions for students obtaining this degree.

Students interested in food animal pre-veterinary medicine should pursue this degree. The degree emphasizes science-based study of food animal production, including nutrition, health, reproduction, anatomy/physiology, genetics, and meat science.

In addition, management level courses in several food animal species are offered. Students get hands-on learning about food animals such as sheep, beef and dairy cattle, and pigs at the University Farm.

Grading Requirement

All courses taken to fulfill program course requirements must be taken for a letter grade except those courses specified by the department as credit/no credit grading only.

Course Requirements for the Major: 79-80 units

Completion of the following courses, or their approved transfer equivalents, is required of all candidates for this degree. Courses in this program may complete more than one graduation requirement.

Course	Title	Units
Lower Division		
AGRI 180	The University Experience	1
ANSC 101	Introduction to Animal Science	3
ANSC 230	Animal Feeds and Nutrition	3
MATH 105	Introduction to Statistics	3
Select one of the following:		4
CHEM 107	General Chemistry for Applied Sciences	
CHEM 111	General Chemistry I	
Select one of the following:		4
CHEM 108	Organic Chemistry for Applied Sciences	
CHEM 112	General Chemistry II	
Select one of the following:		3
ABUS 101	Introduction to Agricultural Business and Economics	
ABUS 261	Farm Accounting	
Select one of the following:		3-4
BIOL 162	Principles of Cellular and Molecular Biology	
PSSC 101	Introduction to Plant Science	
PSSC 250	Introduction to Soil Science	
Select nine units from the following:		9
Any combination of lower-division courses in Agriculture (AGRI), Agricultural Engineering Technology (AGET), Animal Science (ANSC), Plant and Soil Science (PSSC), and Agricultural Business (ABUS).		
BIOL 161	Principles of Ecological, Evolutionary, and Organismal Biology	
BIOL 163	Principles of Physiology and Development	
CHEM 270	Organic Chemistry I	
PHYS 202A	General Physics I	
PHYS 202B	General Physics II	
Upper Division		
AGRI 305	Agricultural Genetics	3
AGRI 482W	Agricultural Issues (W)	3
AGRI 490W	Agricultural Experimental Research (W)	4
ANSC 330	Animal Nutrition	3
ANSC 340	Reproductive Physiology of Domestic Animals	3
ANSC 360	Animal Health and Disease	3
ANSC 440	Physiology of Domestic Animals	3
Select one of the following:		3
AGRI 331	Agricultural Ecology	
PSSC 330	Rangeland Resources and Management	
PSSC 363	Forage Crops	
Animal Science Electives		
Select nine units from the following (six units must be upper division):		9
ANSC 271	Principles of Beef Cattle Production	
ANSC 274	Principles of Dairy Production	
ANSC 301	Intermediate Animal Systems	
ANSC 350	Meat and the Consumer	
ANSC 372	Sheep Production	
ANSC 373	Swine Production	
ANSC 374	Organic Dairy Production and Management	
ANSC 450	Food Sanitation and Quality Control	
ANSC 471	Advanced Beef Cattle Management and Production	
ANSC 474	Dairy Production and Management	
Select 12 units from the following:		12
Any combination of upper-division courses in Agriculture (AGRI), Agricultural Engineering Technology (AGET), Animal Science (ANSC), Plant and Soil Science (PSSC), and Agricultural Business (ABUS). A minimum of three upper-division ABUS units are recommended.		
BIOL 360	Genetics	
BIOL 416	Vertebrate Physiology	
CHEM 370	Organic Chemistry II	
CHEM 451	Biochemistry I	
Total Units		**79-80**

Honors in the Major

Honors in the Major is a program of independent work in your major. It requires six units of honors coursework completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are:

- You must take six units of Honors in the Major coursework. All six units are honors courses (marked by a suffix of H), and at least three of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each course with a minimum grade of B.
- You must have completed 9 units of upper-division coursework or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
- Yourcumulative#GPA should be at least 3.5 or within the top 5% of majors in your department.
- Your GPAin your major#should be at least 3.5 or within the top 5% of majors in your department.
- Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the six units of coursework over the two semesters of their senior year.
- Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.

See Bachelor's Degree Requirements (https://catalog.csuchico.edu/undergraduate-requirements/bachelors-degree-requirements/) for complete details on general degree requirements. A minimum of 39 units, including those required for the major, must be upper division.

General Education Requirements: 48 units

See General Education (https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/) and the Class Schedule (http://www.csuchico.edu/schedule/) for the most current information on General Education Requirements and course offerings.

This major has approved GE modification(s). See below for information on how to apply these modification(s).

- ANSC 101 is an approved major course substitution for Life Science (B2).
- AGRI 482W is an approved major course substitution for Upper-Division Social Sciences (UD-D).

Diversity Course Requirements: 6 units

You must complete a minimum of two courses that focus primarily on cultural diversity. At least one course must be in US Diversity (USD) and at least one in Global Cultures (GC). See Diversity Requirements (https://catalog.csuchico.edu/undergraduate-requirements/diversity-requirements/) for a full list of courses. Most courses taken to satisfy these requirements may also apply to General Education (https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/).

Upper-Division Writing Requirement

Writing Across the Curriculum (EM 17-009 (http://www.csuchico.edu/prs/EMs/2017/17-009.shtml/)) is a graduation requirement and may be demonstrated through satisfactory completion of four Writing (W) courses, two of which are designated by the major department. See Mathematics/Quantitative Reasoning and Writing Requirements (https://catalog.csuchico.edu/undergraduate-requirements/mathematicsquantitative-reasoning-writing-requirements/) for more details on the four courses. The first of the major designated Writing (W) courses is listed below.

- AGRI 490W Agricultural Experimental Research (W)

The second major-designated Writing course is the Graduation Writing Assessment Requirement (GW) (EO 665 (https://calstate.policystat.com/policy/9585618/latest/)). Students must earn a C- or higher to receive GW credit. The GE Written Communication (A2) (https://catalog.csuchico.edu/colleges-departments/undergraduate-education/general-education/#A2) requirement must be completed before a student is permitted to register for a GW course.