

ANIMAL SCIENCE, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Degree Requirements

For the Bachelor of Science degree in Animal Science, a minimum of 120 credits is required:

Requirement	Credits
General Education	45
Electives	0-6
Requirements for the Major	81-84

9-12 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 6-9 credits of GN courses; 3 credits of GS courses.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/>).

Code	Title	Credits
Prescribed Courses		
ANSC 331	Physiology of Animal Reproduction	3
BIOL 110	Biology: Basic Concepts and Biodiversity	4
BMB 211	Elementary Biochemistry	3
<i>Prescribed Courses: Require a grade of C or better</i>		
ANSC 100	Introduction to Animal Industries	3
ANSC 201	Animal Science	4
ANSC 207	Animal Products Technology	2
ANSC 208	Animal Products Technology Laboratory	1
ANSC 290	Careers in Animal Agriculture	1
ANSC 300	Anatomy and Physiology of Domestic Animals	3
ANSC 301	Principles of Animal Nutrition	3
Additional Courses		
AGBM 101	Economic Principles of Agribusiness Decision Making	3
or ECON 102	Introductory Microeconomic Analysis and Policy	
ANSC 322	Animal Genetics and Selection	3
or BIOL 222	Genetics	
CHEM 101	Introductory Chemistry	2-3
or CHEM 110	Chemical Principles I	
or CHEM 130	Introduction to General, Organic, and Biochemistry	
CHEM 202	Fundamentals of Organic Chemistry I	3
or CHEM 210	Organic Chemistry I	
MICRB 106	Elementary Microbiology	3
or MICRB 201	Introductory Microbiology	
MICRB 107	Elementary Microbiology Laboratory	1-2
or MICRB 202	Introductory Microbiology Laboratory	
<i>Additional Courses: Require a grade of C or better</i>		

Select 3-4 credits from the following: 3-4

ANSC 305	Companion Animal Nutrition
ANSC 306	Swine Production and Management
ANSC 308	Sheep and Goat Production and Management
ANSC 309	Beef Cattle Production and Management
ANSC 310	Dairy Cattle Production and Management
ANSC 311	Poultry Production and Management
ANSC 315	Small Animal Health and Disease
ANSC 324	Value Determination of Meat Animals
ANSC 327	Horse Production and Management

Supporting Courses and Related Areas

Select 36 credits (at least 6 credits of Animal Science and 6 credits of "Other Courses") from department lists. 12 credits must be at the 400-level, and a minimum of 3 of these 12 400-level credits must be in ANSC. (Students may apply 6 credits of ROTC.)¹ 36

¹ Certain courses from the department lists may double count as General Education courses; consult with your adviser.

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (<https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/>) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)

- **Quantification (GQ):** 6 credits
- **Writing and Speaking (GWS):** 9 credits

Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

- **Arts (GA):** 3 credits
- **Health and Wellness (GHW):** 3 credits
- **Humanities (GH):** 3 credits
- **Social and Behavioral Sciences (GS):** 3 credits
- **Natural Sciences (GN):** 3 credits

Integrative Studies

- **Inter-Domain Courses (Inter-Domain):** 6 credits

Exploration

- **GN**, may be completed with Inter-Domain courses: 3 credits
- **GA, GH, GN, GS, Inter-Domain courses.** This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 6 credits

University Degree Requirements

First Year Engagement

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement

6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

Writing Across the Curriculum

3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/>)). For more information, check the Suggested Academic Plan for your intended program.