

ANIMAL SCIENCE: PRE-VETERINARY/PRE-MEDICAL, BSAG

Requirements for Students Matriculating in or before Academic Year 2025-2026. Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

Minimum Overall Grade Point Average: 2.00

Total Hours: 120

Code	Title	Hours
General Education Requirements		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the following:		3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
<i>American History & Government</i>		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
<i>Quantitative Thought & Logical Reasoning (Q)</i>		
MATH 1513	College Algebra (Q) ¹	3
Select one of the following:		3
STAT 2013	Elementary Statistics (Q) ¹	
STAT 2023	Elementary Statistics for Business and Economics (Q) ¹	
<i>Understanding Humanities-Human Heritage & Cultures (H)</i>		
Courses designated (DH)		3
Courses designated (GH)		3
<i>Reasoning in the Natural Sciences (N)</i>		
Must include one Laboratory-Based Inquiry (L) course		
Select four hours from the following:		4
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN) ^{1, 5}	
BIOL 1114	Introductory Biology (LN) ^{1, 5}	
CHEM 1314	Chemistry I (LN) ¹	4
CHEM 1515	Chemistry II (LN) ¹	5
<i>Exploring Society & Human Behavior (S)</i>		
AGEC 1113	Introduction to Agricultural Economics (S) ^{1, 5}	3
<i>Diversity (D)</i>		
Courses designated (D)		
May be paired with another designated course		

Global Cultural Competency (G)

Courses designated (G)

May be paired with another designated course

Additional General Education

Additional general education credit hours may be required to meet the total 40-hour minimum of general education credit if courses carry more than one general education designation and can be used to meet multiple general education designation hour requirements above.

Courses designated (Q), (H), (N), (S), (D), (G), or (F). 0

Hours Subtotal 40

College/Departmental Requirements

Agricultural Sciences and Natural Resources

UNIV 1111 First Year Seminar (or other approved first year seminar course) ⁵ 1

Select one of the following: 3

HORT 1013 Principles of Horticultural Science (LN) ⁵

PLNT 1213 Introduction to Plant and Soil Systems (N) ⁵

SOIL 1113 Land, Life and the Environment (N) ⁵

Select four hours from the following: 4

ANSI 1023 & ANSI 1021 Introduction to the Animal Sciences and Introduction to the Animal Sciences Lab ⁵

ANSI 1124 Introduction to the Animal Sciences ⁵

ANSI 2111 Animal and Food Science Professional Development ⁵ 1

ANSI 2233 The Meat We Eat ⁵ 3
or ANSI 2253 Meat Animal and Carcass Evaluation

Written and Oral Communications

Select one of the following: ⁵ 3

AGCM 3103 Written Communications in Agricultural Sciences and Natural Resources

ENGL 3323 Technical Writing ³

BCOM 3113 Written Communication

Select one of the following: ^{4, 5} 3

AGCM 3203 Oral Communications in Agricultural Sciences & Natural Resources (S) ⁵

SPCH 2713 Introduction to Speech Communication (S) ⁵

SPCH 3733 Elements of Persuasion (S) ⁵

ANSI 3423 Animal Genetics ⁵ 3

ANSI 3433 Animal Breeding ⁵ 3

ANSI 3444 Animal Reproduction ⁵ 4

ANSI 3543 Principles of Animal Nutrition ⁵ 3

ANSI 3653 Applied Animal Nutrition ⁵ 3

Hours Subtotal 34

Major Requirements

Core Courses

ANSI 3414 Form and Function of Livestock and Poultry 4

MICR 2123 & MICR 2132 Introduction to Microbiology and Introduction to Microbiology Laboratory 5

PHYS 1114	College Physics I (LN)	4
PHYS 1214	College Physics II (LN)	4
BIOC 3653	Survey of Biochemistry	3
CHEM 3012	Survey of Organic Chemistry Laboratory	2
CHEM 3013	Survey of Organic Chemistry	3
<i>Related Courses</i>		
Select Alternative 1 or 2: (p. 2)		21
Hours Subtotal		46
Electives		
Select 0 hours or hours to complete required total for degree		0
Total Hours		120

1

College and Departmental requirements that may be used to meet General Education requirements.

2

If used for (N) requirement, hours in this block are reduced by CHEM course hours and related courses increased.

3

If ENGL 3323 is substituted for ENGL 1213 above, hours in this block are reduced by 3.

4

If used as an (S) course above, hours in this block reduced by 3.

5

Hours meeting the major common core.

Alternatives

Alternative 1

First 2 Semesters in the College of Veterinary Medicine or College of Medicine (21 hours).

Alternative 2

Code	Title	Hours
ANSI 4863	Capstone for Animal Agriculture	3
Select 6 hours from the following:		6
ANSI 4023	Poultry Science	
ANSI 4203	Rangeland and Pasture Utilization	
ANSI 4423	Horse Science	
ANSI 4523	Pet and Companion Animal Management	
ANSI 4543	Dairy Cattle Science	
ANSI 4553	Sheep Science	
ANSI 4613	Beef Cow-Calf Management	
ANSI 4633	Stocker and Feedlot Cattle Management	
ANSI 4643	Swine Science	
ANSI 4703	Equine Enterprise Management	
ANSI 4713	Beef Seedstock Management and Sales	
ANSI 4803	Animal Growth and Performance	
ANSI 4843	Applications of Biotechnology in Animal Science	
Select 3 hours from the following courses:		3
ANSI 3310	Advanced Competitive Evaluation	
ANSI 3312	Advanced Meat Animal Evaluation	
ANSI 3322	Applied Meat Animal Selection	

ANSI 3410	Peer-Led Team Learning in Animal Science	
ANSI 3420	Undergraduate Research in Animal and Food Science	
ANSI 4910	Animal Industry Internship	
AG 3080	International Experience	
Select 9 hours from any ANSI, BIOL, CHEM, MICR courses or Ferguson College of Agriculture		9

Other Requirements

- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 and 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2031.