

# ANIMAL SCIENCE: PRODUCTION AND OPERATIONS, BSAG

**Requirements for Students Matriculating in or before Academic Year 2024-2025.** 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
<b>General Education Requirements</b>		
<i>English Composition</i>		
See Academic Regulation 3.5 ( <a href="http://catalog.okstate.edu/university-academic-regulations/#english-composition/">http://catalog.okstate.edu/university-academic-regulations/#english-composition/</a> )		
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 &amp; 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>Analytical &amp; Quantitative Thought (A)</i>		
MATH 1513	College Algebra (A) <sup>1</sup>	3
or MATH 1483	Mathematical Functions and Their Uses (A)	
Select one of the following:		3
STAT 2013	Elementary Statistics (A) <sup>1</sup>	
STAT 2023	Elementary Statistics for Business and Economics (A) <sup>1</sup>	
<i>Humanities (H)</i>		
Courses designated (H)		6
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
Select four hours from the following:		4
BIOL 1113	Introductory Biology (N)	
& BIOL 1111	and Introductory Biology Laboratory (LN) <sup>1</sup>	
BIOL 1114	Introductory Biology (LN)	
Any course designated (N)		3
<i>Social &amp; Behavioral Sciences (S)</i>		
AGEC 1113	Introduction to Agricultural Economics (S) <sup>1</sup>	3
<i>Additional General Education</i>		
Courses designated (A), (H), (N), or (S)		6
<b>Hours Subtotal</b>		<b>40</b>
<b>Diversity (D) &amp; International Dimension (I)</b>		
May be completed in any part of the degree plan		

Select at least one Diversity (D) course

Select at least one International Dimension (I) course

## College/Departmental Requirements

### Agricultural Sciences and Natural Resources

AG 1011	First Year Seminar <sup>5</sup>	1
Select one of the following: <sup>5</sup>		3
HORT 1013	Principles of Horticultural Science (LN) <sup>5</sup>	
PLNT 1213	Introduction to Plant and Soil Systems <sup>5</sup>	
SOIL 1113	Land, Life and the Environment (N) <sup>5</sup>	
SOIL 2124	Fundamentals of Soil Science (N) <sup>5</sup>	

Select four hours from the following: 4

ANSI 1023 & ANSI 1021	Introduction to the Animal Sciences and Introduction to the Animal Sciences Lab <sup>5</sup>	
ANSI 1124	Introduction to the Animal Sciences <sup>5</sup>	
ANSI 2111	Animal and Food Science Professional Development <sup>5</sup>	1
ANSI 2253	Meat Animal and Carcass Evaluation <sup>5</sup>	3
or ANSI 2233	The Meat We Eat	
CHEM 1215	Chemical Principles I (LN) <sup>2</sup>	4
or CHEM 1314	Chemistry I (LN)	

### Written and Oral Communications

Select 3 hours of the following courses: 3

AGCM 3103	Written Communications in Agricultural Sciences and Natural Resources <sup>5</sup>	
ENGL 3323	Technical Writing <sup>3</sup>	
BCOM 3113	Written Communication <sup>5</sup>	

Select one of the following: <sup>4</sup> 3

AGCM 3203	Oral Communications in Agricultural Sciences & Natural Resources (S) <sup>5</sup>	
SPCH 2713	Introduction to Speech Communication (S) <sup>5</sup>	
SPCH 3733	Elements of Persuasion (S) <sup>5</sup>	
ANSI 3423	Animal Genetics <sup>5</sup>	3
ANSI 3433	Animal Breeding <sup>5</sup>	3
ANSI 3444	Animal Reproduction <sup>5</sup>	4
ANSI 3543	Principles of Animal Nutrition <sup>5</sup>	3
ANSI 3653	Applied Animal Nutrition <sup>5</sup>	3

**Hours Subtotal 38**

## Major Requirements

### Core Courses

ANSI 2112	Live Animal Evaluation	2
ANSI 3414	Form and Function of Livestock and Poultry	4
ANSI 3651	Applied Animal Nutrition Lab	1
ANSI 4863	Capstone for Animal Agriculture	3

Select 6 hours from the following: 6

ANSI 3123	Livestock Health and Diseases	
ANSI 3333	Meat Science	
ANSI 3533	Equine Management and Production	
ANSI 3623	Livestock Behavior and Environmental Interactions	
ANSI 3753	Basic Nutrition for Pets	

Select 9 hours from the following:	9
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	

*Additional Core Courses*

Select 3 hours from the following:	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	
ENTO 3003 Livestock Entomology	3
SOIL 2124 Fundamentals of Soil Science (N)	4

*Related Courses*

Selected 7 hours from any ANSI course or from Ferguson College of Agriculture	7
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<b>Hours Subtotal</b>	<b>42</b>
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**Electives**

Select 0 hours or hours to complete required total for degree	0
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<b>Total Hours</b>	<b>120</b>
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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 (S) course above, hours in this block reduced by 3.

5

Hours meeting the major common core.

## 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 or 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 2030.