# Animal Science: Pre-Veterinary Animal Science, BSAG

Requirements for Students Matriculating in or before Academic Year 2019-2020. 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

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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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## General Education Requirements

### English Composition

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

### American History & Government

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

### Analytical & Quantitative Thought (A)

- **MATH 1513** College Algebra (A) 1 3
- Select one of the following: 3
  - **MATH 1613** Trigonometry (A) 1
  - **STAT 2013** Elementary Statistics (A) 1
  - **STAT 2023** Elementary Statistics for Business and Economics (A) 1

### Humanities (H)

Courses designated (H) 6

### Natural Sciences (N)

Must include one Laboratory Science (L) course

- **BIOL 1114** Introductory Biology (LN) 1 4
- **CHEM 1314** Chemistry I (LN) 1 4
- **CHEM 1515** Chemistry II (LN) 1 5

### Social & Behavioral Sciences (S)

- **AGEC 1113** Introduction to Agricultural Economics (S) 1 3

## Hours Subtotal

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## Diversity (D) & International Dimension (I)

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 1
- **PLNT 1213** Introduction to Plant and Soil Systems 3
- **ANSI 1124** Introduction to the Animal Sciences 4
- **ANSI 2111** Animal and Food Science Professional Development 1
- **ANSI 2233** The Meat We Eat or **ANSI 2253** Meat Animal and Carcass Evaluation 3

### Written and Oral Communications

- **AGCM 3103** Written Communications in Agricultural Sciences and Natural Resources 2 3
- or **ENGL 3323** Technical Writing

Select one of the following: 3

- **AGCM 3203** Oral Communications in Agricultural Sciences & Natural Resources (S)
- **SPCH 2713** Introduction to Speech Communication (S)
- **SPCH 3733** Elements of Persuasion (S)

### Hours Subtotal

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## Major Requirements

### Core Courses

- **ANSI 3423** Animal Genetics 3
- **ANSI 3543** Principles of Animal Nutrition 3
- **ANSI 3903** Agricultural Animals of the World (I) 3

Select Option 1 or 2: (p. 2) 9

### Additional Core Courses

- **BIOL 1604** Animal Biology
- **BIOL 3204** Physiology
- **ANSI 3414** Form and Function of Livestock and Poultry

Select 5 hours of upper division organic chemistry 5

- **BIOC 3653** Survey of Biochemistry 3

## Hours Subtotal

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## Electives

Select 0 hours or hours to complete required total for degree 0

Total Hours 120

### Notes

1. College & Departmental requirements that may be used to meet GE requirements.
2. If ENGL 3323 Technical Writing is substituted for ENGL 1213 Composition II above; hours in this block are reduced by 3.
Options
Option 1
Code | Title | Hours
--- | --- | ---
ANSI 3443 | Animal Reproduction | 9
ANSI 3623 | Livestock Behavior Handling | 9
ANSI 3653 | Applied Animal Nutrition | 9

Option 2
Select 9 hours of the following:
Code | Title | Hours
--- | --- | ---
FDSC 3113 | Quality Control | 9
FDSC 3154 | Food Microbiology | 9
FDSC 3333 | Meat Science | 9
FDSC 3373 | Food Chemistry I | 9
FDSC 3603 | Processing Dairy Foods | 9
FDSC 4763 | Analysis of Food Products | 9

Alternatives
Alternative 1
First 2 semesters in the College of Veterinary Medicine.

Alternative 2
Code | Title | Hours
--- | --- | ---
ANSI 3433 | Animal Breeding | 3
ANSI 4863 | Capstone for Animal Agriculture | 3
Select 3 hours of the following:
ANSI 4023 | Poultry Science | 3
ANSI 4423 | Horse Science | 3
ANSI 4543 | Dairy Cattle Science | 3
ANSI 4553 | Sheep Science | 3
ANSI 4613 | Beef Cow-Calf Management | 3
ANSI 4633 | Stocker and Feedlot Cattle Management | 3
ANSI 4643 | Swine Science | 3
ANSI 4703 | Equine Enterprise Management | 3
ANSI 4713 | Beef Seedstock Management and Sales | 3
Upper division FDSC courses
Select 10 hours of the following (minimum of 9 upper division hours required):
Select any upper division course in AG, AGEC, ANSI, BIOL, CHEM, ENTO, FDSC, MICR, NREM, PLNT, SOIL

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.