ANIMAL SCIENCE: PRE-VETERINARY ANIMAL SCIENCE, BSAG

Requirements for Students Matriculating in or before Academic Year 2020-2021. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

English Composition
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition/)

Analytical & Quantitative Thought (A)
MATH 1513 | College Algebra (A) ¹                                              | 3     |

Select one of the following:

MATH 1613 | Trigonometry (A) ¹                                                 | 3     |

STAT 2013 | Elementary Statistics (A) ¹                                       |       |

STAT 2023 | Elementary Statistics for Business and Economics (A) ¹            |       |

American History & Government

Select one of the following:

HIST 1103 | Survey of American History                                       | 3     |

HIST 1483 | American History to 1865 (H)                                     |       |

HIST 1493 | American History Since 1865 (DH)                                 |       |

POLS 1113 | American Government                                              | 3     |

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                                                  | 40    |

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     |

Select one of the following:

HORT 1013 | Principles of Horticultural Science (LN)                          | 3     |

PLNT 1213 | Introduction to Plant and Soil Systems                             |       |

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

SOIL 2124 | Fundamentals of Soil Science (N)                                   |       |

ANSI 1124 | Introduction to the Animal Sciences                                | 4     |

ANSI 2111 | Animal and Food Science Professional Development                   | 1     |

ANSI 2233 | The Meat We Eat                                                    | 3     |

or ANSI 2253 | Meat Animal and Carcass Evaluation                               |       |

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:

AGCM 3203 | Oral Communications in Agricultural Sciences & Natural Resources (S) | 3     |

SPCH 2713 | Introduction to Speech Communication (S)                         |       |

SPCH 3733 | Elements of Persuasion (S)                                        |       |

Hours Subtotal                                                  | 18    |

Major Requirements

Core Courses

ANSI 3423 | Animal Genetics                                                   | 3     |

ANSI 3543 | Principles of Animal Nutrition                                     | 3     |

ANSI 3903 | Agricultural Animals of the World (I)                             |       |

Option

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

Additional Core Courses

MICR 2123 | Introduction to Microbiology                                      | 5     |

& MICR 2132 | Introduction to Microbiology Laboratory                           |       |

PHYS 1114 | College Physics I (LN)                                            | 4     |

PHYS 1214 | College Physics II (LN)                                           | 4     |

Select one of the following:

BIOL 1604 | Animal Biology                                                    | 4     |

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     |

Related Courses

Select Alternative 1 or 2: (p. 2)                                 | 19    |

Hours Subtotal                                                  | 62    |

Electives

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

Total Hours                                                    | 120   |

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI 3443</td>
<td>Animal Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 3623</td>
<td>Livestock Behavior and Environmental Interactions</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 3653</td>
<td>Applied Animal Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Option 2

Select 9 hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDSC 3113</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>FDSC 3154</td>
<td>Food Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>FDSC 3333</td>
<td>Meat Science</td>
<td>3</td>
</tr>
<tr>
<td>FDSC 3373</td>
<td>Food Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>FDSC 3603</td>
<td>Processing Dairy Foods</td>
<td>3</td>
</tr>
<tr>
<td>FDSC 4763</td>
<td>Analysis of Food Products</td>
<td>3</td>
</tr>
</tbody>
</table>

Alternatives

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

Alternative 2

Select 9 hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI 3433</td>
<td>Animal Breeding</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4863</td>
<td>Capstone for Animal Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>
Select 3 hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI 4023</td>
<td>Poultry Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4423</td>
<td>Horse Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4543</td>
<td>Dairy Cattle Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4553</td>
<td>Sheep Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4613</td>
<td>Beef Cow-Calf Management</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4633</td>
<td>Stocker and Feedlot Cattle Management</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4643</td>
<td>Swine Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4703</td>
<td>Equine Enterprise Management</td>
<td>3</td>
</tr>
<tr>
<td>ANSI 4713</td>
<td>Beef Seedstock Management and Sales</td>
<td>3</td>
</tr>
</tbody>
</table>

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.