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>
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<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>3</td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
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American History & Government
Select one of the following:
- 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
Select one of the following:
- 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
  - CHEM 1314 Chemistry I (LN) 1
  - CHEM 1515 Chemistry II (LN) 1
  - Social & Behavioral Sciences (S)
  - AGEC 1113 Introduction to Agricultural Economics (S) 1

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)
- PLNT 1213 Introduction to Plant and Soil Systems
- SOIL 1113 Land, Life and the Environment (N)
- SOIL 2124 Fundamentals of Soil Science (N)
- ANSI 1114 Introduction to the Animal Sciences
- ANSI 2111 Animal and Food Science Professional Development
- ANSI 2233 The Meat We Eat
  or ANSI 2253 Meat Animal and Carcass Evaluation

Written and Oral Communications
AGCM 3103 Written Communications in Agricultural Sciences and Natural Resources 2
Select one of the following:
- 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 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) 3
  - Option
  - Select Option 1 or 2: (p. 2) 9

Additional Core Courses
- MICR 2123 Introduction to Microbiology 5
  & MICR 2132 and Introduction to Microbiology Laboratory
- PHYS 1114 College Physics I (LN) 4
- PHYS 1214 College Physics II (LN) 4
  - Select one of the following: 4
    - 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

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

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<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>ANSI 3443</td>
<td>Animal Reproduction</td>
<td>9</td>
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<tr>
<td>ANSI 3623</td>
<td>Livestock Behavior and Environmental Interactions</td>
<td></td>
</tr>
<tr>
<td>ANSI 3653</td>
<td>Applied Animal Nutrition</td>
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Option 2

Select 9 hours of the following:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FDSC 3113</td>
<td>Quality Control</td>
<td>9</td>
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<tr>
<td>FDSC 3154</td>
<td>Food Microbiology</td>
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<tr>
<td>FDSC 3333</td>
<td>Meat Science</td>
<td></td>
</tr>
<tr>
<td>FDSC 3373</td>
<td>Food Chemistry I</td>
<td></td>
</tr>
<tr>
<td>FDSC 3603</td>
<td>Processing Dairy Foods</td>
<td></td>
</tr>
<tr>
<td>FDSC 4763</td>
<td>Analysis of Food Products</td>
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Alternatives

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

Alternative 2

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<tr>
<th>Code</th>
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<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>
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Select 3 hours of the following:

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