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

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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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**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 3

Select one of the following: 3

- ENGL 1213 Composition II 3
- ENGL 1413 Critical Analysis and Writing II 3
- ENGL 3323 Technical Writing 3

*American History & Government*

Select one of the following: 3

- HIST 1103 Survey of American History 3
- HIST 1483 American History to 1865 (H) 3
- HIST 1493 American History Since 1865 (DH) 3

- POLS 1113 American Government 3

*Analytical & Quantitative Thought (A)*

- MATH 1513 College Algebra (A) 1 3

Select one of the following: 3

- STAT 2013 Elementary Statistics (A) 1 3
- STAT 2023 Elementary Statistics for Business and Economics (A) 1 3

*Humanities (H)*

Courses designated (H) 6

*Natural Sciences (N)*

Must include one Laboratory Science (L) course

Select four hours from the following: 4

- BIOL 1113 Introductory Biology (N) and Introductory Biology Laboratory (LN) 1, 5 5
- BIOL 1114 Introductory Biology (LN) 1, 5 5
- 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, 5 3

**Additional General Education**

*Hours Subtotal* 40

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

May be completed in any part of the degree plan

**College/Departmental Requirements**

**Agricultural Sciences and Natural Resources**

- AG 1011 First Year Seminar 5 1

Select one of the following: 3

- HORT 1013 Principles of Horticultural Science (LN) 5
- PLNT 1213 Introduction to Plant and Soil Systems 5
- SOIL 1113 Land, Life and the Environment (N) 5

Select four hours from the following: 4

- ANSI 1023 Introduction to the Animal Sciences 5
- & ANSI 1021 Introduction to the Animal Sciences Lab 5
- ANSI 1124 Introduction to the Animal Sciences 5

- ANSI 2111 Animal and Food Science Professional Development 5
- ANSI 2233 The Meat We Eat 5
- or ANSI 2253 Meat Animal and Carcass Evaluation 5

*Written and Oral Communications*

Select one of the following: 5

- AGCM 3103 Written Communications in Agricultural Sciences and Natural Resources 5
- ENGL 3323 Technical Writing 3
- BCOM 3113 Written Communication 3

Select one of the following: 4, 5

- 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
- ANSI 3433 Animal Breeding 5
- ANSI 3444 Animal Reproduction 5
- ANSI 3543 Principles of Animal Nutrition 5
- ANSI 3653 Applied Animal Nutrition 5

**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

**Related Courses**

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 (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 (21 hours).

**Alternative 2**

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<td>ANSI 4863</td>
<td>Capstone for Animal Agriculture</td>
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Select 6 hours from the following:

| 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:

| 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

**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 2029.