# ZOOLOGY: PRE-VETERINARY SCIENCES, BS

## Degree Requirements

**Requirements for Students Matriculating in or before Academic Year 2021-2022.** 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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<tr>
<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  
or ENGL 1313 Critical Analysis and Writing I  
Select one of the following:  
ENGL 1213 Composition II  
ENGL 1413 Critical Analysis and Writing II  
ENGL 3323 Technical Writing

**American History & Government**  
HIST 1103 Survey of American History  
or HIST 1483 American History to 1865 (H)  
or HIST 1493 American History Since 1865 (DH)  
POLS 1113 American Government

**Analytical & Quantitative Thought (A)**  
MATH 1813 Preparation for Calculus (A) (or higher)  
or MATH 1613 Trigonometry (A)  
STAT 4013 Statistical Methods I (A)  
or STAT 2013 Elementary Statistics (A)

**Humanities (H)**  
Courses designated (H)  
Natural Sciences (N)  
Must include one Laboratory Science (L) course  
PHYS 1114 College Physics I (LN)  
or PHYS 2014 University Physics I (LN)  
PHYS 1214 College Physics II (LN)  
or PHYS 2114 University Physics II (LN)

**Social & Behavioral Sciences (S)**  
Course designated (S)  
Additional General Education  
Courses designated (A), (H), (N), or (S)

### Hours Subtotal  
41

### 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

**First Year Seminar**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</table>

(Transfer students with 15 hours exempt)

**Arts & Humanities**  
See note 2.a.

**Natural & Mathematical Sciences**  
CHEM 1314 Chemistry I (LN)  
CHEM 1515 Chemistry II (LN)

**Foreign Language**  
See note 3  
0-6 hours

**Upper-Division General Education**  
Select 6 hours outside major department  
See note 2.c.

### Hours Subtotal  
13

### Major Requirements

Minimum grade of "C" in each course.

**Core Courses**  
Biol 1114 Introductory Biology (LN)  
Biol 1604 Animal Biology  
Biol 3023 General Genetics  
Biol 3034 General Ecology

**Related Courses**  
MICR 2123 Introduction to Microbiology  
MICR 2132 Introduction to Microbiology Laboratory

**Organic Chemistry, Choose From:**  
CHEM 3013 & CHEM 3012 Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory  
CHEM 3053 Organic Chemistry I  
CHEM 3112 & CHEM 3153 Organic Chemistry Laboratory and Organic Chemistry II

**Related Courses**  
ANSI 3543 Principles of Animal Nutrition  
BIOC 3653 Survey of Biochemistry

**Supplemental Courses**  
Select one of the following:  
ENGL 3323 Technical Writing  
HIST 4523 American Environmental History (H)  
PHIL 3703 Animal Ethics (H)  
PHIL 3833 Biomedical Ethics (H)  
PHIL 4713 Philosophy of Science (H)  
PHIL 4733 Philosophy of Biology (H)  
SOC 4433 Environmental Sociology (S)  
SOC 4453 Environmental Inequality (S)

### Hours Subtotal  
57
Electives 2

Select 9 hours

MATH 1513 required for students who do not place directly into MATH 1813 (or MATH 1613).

May need to include 6 hours of a foreign language. (see note 3)

May need to include 6 hours upper-division general education outside major department (see note 2.c.) and 4 additional upper-division hours

Total Hours 120

1  College and Departmental Requirements that may be used to meet General Education Requirements.

2  With approval from the advisor and department head and a minimum GPA of 3.0, a maximum of 30 hours from an accredited doctoral health program may be substituted for electives or major requirements other than BIOL 3023 General Genetics and BIOL 4133 Evolution.

Additional requirements for professional school admission exist. View Admission Requirement Sheets at prehealth.okstate.edu (http://prehealth.okstate.edu).

Other Requirements

•  See the College of Arts and Sciences Requirements.

•  Minimum 2.0 GPA in all BIOL courses.

•  Upper-Division Credit: Total hours must include at least 48 hours in courses numbered 3000 or above.

•  Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.

College of Arts and Sciences Requirements

1.  General Education Requirements

   No more than two courses (or eight hours) from the major department (http://catalog.okstate.edu/college-arts-sciences-major-departments/) may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

2.  A&S College/Departmental Requirements

   a.  Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.

   b.  Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOL, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.

   c.  The required six hours of upper-division General Education may not include courses from the student’s major department. This requirement may be satisfied by courses also used to satisfy any part of a student’s degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

   d.  Non-Western Studies Requirement for B.A. and B.F.A.; One 3-hour course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student’s degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

   e.  The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3.  Foreign Language Proficiency

   a.  The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.

   b.  The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.

   c.  In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below C. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4.  Exclusions

   a.  Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum allowed from one department.

   b.  Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

5.  Teacher Certification

   Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences advisor and the OSU Professional Education Unit in room 325 Willard.
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 2027.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

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<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tr>
<td>Fall</td>
<td></td>
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<tr>
<td>ENGL 1113 or ENGL 1313</td>
<td>Composition I or Critical Analysis and Writing I</td>
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<td>MATH 1813</td>
<td>Preparation for Calculus (A)</td>
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<td>BIOL 1113</td>
<td>Introductory Biology (N)</td>
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<td>BIOL 1111</td>
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<td>Composition II or Critical Analysis and Writing II</td>
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<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
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<td>BIOL 1604</td>
<td>Animal Biology</td>
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<td>Chemistry II (LN)</td>
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<td>General Ecology</td>
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<td>CHEM 3153</td>
<td>Organic Chemistry II</td>
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<td>Organic Chemistry Laboratory (If CHEM 3053)</td>
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### Senior

#### Fall

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<td>BIOL 3023</td>
<td>General Genetics</td>
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<td>BIOL 3653</td>
<td>Survey of Biochemistry</td>
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<td>BIOL 3114</td>
<td>Vertebrate Zoology</td>
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<td>BIOL 3104 or BIOL 4104</td>
<td>Invertebrate Zoology or General Parasitology</td>
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**Hours** 14

#### Spring

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<tbody>
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<td>BIOL 4133</td>
<td>Evolution</td>
<td>3</td>
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</table>

**Major and Elective courses (suggest ENGL 3323)**

**Hours** 13

**Total Hours** 16

1. Speak with academic advisor about saving General Education electives and Humanities (H) for Upper-division courses with International (I) and Diversity (D) dimensions.