# ZOOLOGY: PRE-VETERINARY SCIENCES, BS

## Degree Requirements

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](http://catalog.okstate.edu/university-academic-regulations/#matriculation)).

**Minimum Overall Grade Point Average:** 2.00  
**Total Hours:** 120

### General Education Requirements

#### English Composition

See Academic Regulation 3.5 ([http://catalog.okstate.edu/university-academic-regulations/#english-composition](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 1613** Trigonometry (A) (or higher)  
- **or STAT 2013** Elementary Statistics (A)

#### Humanities (H)

Courses designated (H)  

**6**

#### 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)  

**3**

#### Additional General Education

Courses designated (A), (H), (N), or (S)  

**6**

### 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

(Transfer students with 15 hours exempt)  

**1**

#### 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  
- **BIOL 3104** Invertebrate Zoology  
- **BIOL 4104** General Parasitology  
- **BIOL 3114** Vertebrate Zoology  
- **BIOL 3204** Physiology  
- **BIOL 4133** Evolution  
- **BIOL 4700** Undergraduate Research Problems (1 hour)  
- **or BIOL 4710** Internships in Integrative Biology

**Organic Chemistry, Choose From:**

- **CHEM 3013 & CHEM 3012** Survey of Organic Chemistry and Survey of Organic Chemistry Laboratory  
- **CHEM 3053 & CHEM 3112 & CHEM 3153** Organic Chemistry I and Organic Chemistry Laboratory and Organic Chemistry II

- **MICR 2123** Introduction to Microbiology

- **MICR 2132** Introduction to Microbiology Laboratory  

Select 7 hours additional upper-division BIOL courses with a laboratory in at least one course (excluding general education courses)

**7**

#### Related Courses

- **ANSI 3543** Principles of Animal Nutrition  
- **BIOC 3653** Survey of Biochemistry

#### Supplemental Courses

Select one of the following:

- **ENGL 3323** Technical Writing  
- **GEOG 4203** Fundamentals of Geographic Information Systems  
- **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 4153** Sociology of Health and Illness  
- **SOC 4433** Environmental Sociology (S)
College of Arts and Sciences

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/shared/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 B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass 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.

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 2026.

### 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>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>Freshman</td>
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<td>Fall</td>
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<td>MATH 1813</td>
<td>Preparation for Calculus (A)</td>
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<td>Chemistry I (LN)</td>
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<td>General Education courses</td>
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<td></td>
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<td>Spring</td>
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<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
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<td>MICR 2123</td>
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<td>ANSI 3543</td>
<td>Principles of Animal Nutrition</td>
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1. Speak with academic advisor about saving General Education electives and Humanities (H) for Upper-division courses with International (I) and Diversity (D) dimensions.