## ZOOLOGY, 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](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></td>
<td>General Education Requirements</td>
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</tr>
<tr>
<td></td>
<td><strong>English Composition</strong></td>
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</tr>
<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></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>American History &amp; Government</strong></td>
<td></td>
</tr>
<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 1483</td>
<td>American History to 1865 (H)</td>
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</tr>
<tr>
<td>or HIST 1493</td>
<td>American History Since 1865 (DH)</td>
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<tr>
<td>POLS 1113</td>
<td>American Government</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Analytical &amp; Quantitative Thought (A)</strong></td>
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<tr>
<td>MATH 1813</td>
<td>Preparation for Calculus (A) (or higher) 1</td>
<td>3</td>
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<tr>
<td>or MATH 1613</td>
<td>Trigonometry (A)</td>
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<tr>
<td>STAT 4013</td>
<td>Statistical Methods I (A) 1</td>
<td>3</td>
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<tr>
<td>or STAT 2013</td>
<td>Elementary Statistics (A)</td>
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<tr>
<td></td>
<td><strong>Humanities (H)</strong></td>
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<tr>
<td>Courses designated (H)</td>
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<td>6</td>
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<tr>
<td></td>
<td><strong>Natural Sciences (N)</strong></td>
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<tr>
<td>Must include one Laboratory Science (L) course</td>
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<tr>
<td>PHYS 1114</td>
<td>College Physics I (LN) 1</td>
<td>4</td>
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<tr>
<td>or PHYS 2014</td>
<td>University Physics I (LN)</td>
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<tr>
<td>PHYS 2114</td>
<td>College Physics II (LN) 1</td>
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<tr>
<td>or PHYS 2114</td>
<td>University Physics II (LN)</td>
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<tr>
<td></td>
<td><strong>Social &amp; Behavioral Sciences (S)</strong></td>
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<tr>
<td>Course designated (S)</td>
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<tr>
<td></td>
<td><strong>Additional General Education</strong></td>
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<tr>
<td>Courses designated (A), (H), (N), or (S)</td>
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<td>6</td>
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<tr>
<td><strong>Hours Subtotal</strong></td>
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<td><strong>41</strong></td>
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<tr>
<td></td>
<td><strong>Diversity (D) &amp; International Dimension (I)</strong></td>
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<tr>
<td>May be completed in any part of the degree plan</td>
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<tr>
<td>Select at least one Diversity (D) course</td>
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<tr>
<td>Select at least one International Dimension (I) course</td>
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<td></td>
</tr>
<tr>
<td><strong>College/Departmental Requirements</strong></td>
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<tr>
<td><strong>First Year Seminar</strong></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>(Transfer students with 15 hours exempt)</td>
<td></td>
<td></td>
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<tr>
<td><strong>Arts &amp; Humanities</strong></td>
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**See note 2.a.**

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**Natural & Mathematical Sciences**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
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<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
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</table>

**Foreign Language**

See note 3

**Upper-Division General Education**

Select 6 hours outside major department  
See note 2.c.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td><strong>Major Requirements</strong></td>
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<tr>
<td></td>
<td>Minimum grade of “C” in each course.</td>
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<tr>
<td></td>
<td><strong>Core Courses</strong></td>
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<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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</tr>
<tr>
<td>BIOL 1604</td>
<td>Animal Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3023</td>
<td>General Genetics 2</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3034</td>
<td>General Ecology</td>
<td>4</td>
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<tr>
<td>BIOL 3104</td>
<td>Invertebrate Zoology</td>
<td>4</td>
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<tr>
<td>BIOL 3114</td>
<td>Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3204</td>
<td>Physiology</td>
<td>4</td>
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<tr>
<td>BIOL 4133</td>
<td>Evolution 2</td>
<td>3</td>
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<tr>
<td>BIOL 4700</td>
<td>Undergraduate Research Problems (1 hour)</td>
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<tr>
<td>or BIOL 4710</td>
<td>Internships in Integrative Biology</td>
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<tr>
<td>MICR 2123</td>
<td>Introduction to Microbiology</td>
<td>3</td>
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<tr>
<td>or MICR 3033</td>
<td>Cell and Molecular Biology</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>CHEM 3013</td>
<td>Survey of Organic Chemistry</td>
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<tr>
<td>&amp; CHEM 3012</td>
<td>and Survey of Organic Chemistry Laboratory</td>
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<tr>
<td>CHEM 3053</td>
<td>Organic Chemistry I</td>
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<tr>
<td>&amp; CHEM 3112</td>
<td>and Organic Chemistry Laboratory</td>
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<tr>
<td>&amp; CHEM 3153</td>
<td>and Organic Chemistry II</td>
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<tr>
<td>Select 10 hours upper-division BIOL courses with a laboratory in at least one course (excluding general education courses)</td>
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**Supplemental Courses**

Select 2 of the following from different prefixes: | 6     |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOI 3653</td>
<td>Survey of Biochemistry</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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<tr>
<td>ENVR 3113</td>
<td>Sampling and Analyses for Solving</td>
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<tr>
<td>ENVIRONMENTAL PROBLEMS</td>
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<tr>
<td>GEGO 3153</td>
<td>Conservation of Natural Resources (S)</td>
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<tr>
<td>GEGO 3023</td>
<td>Climatology (N)</td>
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<tr>
<td>GEGO 4053</td>
<td>Biogeography</td>
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<tr>
<td>GEGO 4083</td>
<td>Geography of Grass-Dominated</td>
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<tr>
<td>Ecosystems</td>
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<tr>
<td>GEGO 4073</td>
<td>Climate Change: Past, Present, and Future</td>
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<tr>
<td>GEGO 4203</td>
<td>Fundamentals of Geographic Information</td>
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<tr>
<td>GEOSYS</td>
<td>Systems</td>
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<tr>
<td>GEGO 4503</td>
<td>Marine Geology</td>
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<tr>
<td>GEOL 3043</td>
<td>Geology of the National Parks (N)</td>
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<tr>
<td>GEOL 3503</td>
<td>Environmental Geology (N)</td>
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</tr>
<tr>
<td>GEOL 4503</td>
<td>Introduction to Oceanography (N)</td>
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**See note 2.c.**
HIST 4523  American Environmental History (H)
NREM 3503  Principles of Wildlife Ecology and Management
NREM 3523  Fish and Wildlife Population Biology
NREM 4033  Ecology Of Invasive Species
NREM 4043  Natural Resource Administration and Policy
NREM 4443  Watershed Hydrology and Water Quality
PHIL 3703  Animal Ethics (H)
PHIL 3833  Biomedical Ethics (H)
PHIL 4713  Philosophy of Science (H)
PHIL 4733  Philosophy of Biology (H)
PSYC 3443  Abnormal Psychology (S)
SOC 4153  Sociology of Health and Illness
SOC 4433  Environmental Sociology (S)
SOC 4453  Environmental Inequality (S)

Hours Subtotal  55

Electives  
Select 11 hours  11
May need to include 6 hours of a foreign language. See note 3

MATH 1513 required for students who do not place directly into MATH 1813 (or MATH 1613).
PSYC 1113 and SOC 1113 recommended.
May need to include 6 hours upper-division general education outside major department (see note 2.c.) and 4 additional upper-division hours

Hours Subtotal  11

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.

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, BIOC, 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, 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.