**Biology, BS**

**Requirements for Students Matriculating in or before Academic Year 2018-2019.** 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>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td><em>English Composition</em></td>
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<td></td>
<td>See Academic Regulation 3.5 (<a href="http://catalog.okstate.edu/university-academic-regulations/#english-composition">http://catalog.okstate.edu/university-academic-regulations/#english-composition</a>)</td>
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<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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<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>POLS 1113</td>
<td>American Government</td>
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<tr>
<td></td>
<td><strong>Analytical &amp; Quantitative Thought (A)</strong></td>
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<tr>
<td>MATH 1613</td>
<td>Trigonometry (A) (or higher)</td>
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<tr>
<td>or STAT 4013</td>
<td>Statistical Methods I (A)</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>
<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)</td>
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<tr>
<td>or PHYS 2014</td>
<td>University Physics I (LN)</td>
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<tr>
<td>PHYS 1214</td>
<td>College Physics II (LN)</td>
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<tr>
<td>or PHYS 2114</td>
<td>University Physics II (LN)</td>
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<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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<td></td>
<td><strong>Additional General Education</strong></td>
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<td>Courses designated (A), (H), (N), or (S)</td>
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<td>6</td>
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<td></td>
<td><strong>Hours Subtotal</strong></td>
<td>41</td>
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<tr>
<td></td>
<td><strong>Diversity (D) &amp; International Dimension (I)</strong></td>
<td></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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<td></td>
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<tr>
<td>Select at least one International Dimension (I) course</td>
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<tr>
<td></td>
<td><strong>College/Departmental Requirements</strong></td>
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</tr>
<tr>
<td></td>
<td><em>First Year Seminar</em></td>
<td>1</td>
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<tr>
<td>(Transfer students with 15 hours exempt)</td>
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<td></td>
<td><em>Arts &amp; Humanities</em></td>
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<tr>
<td>See note 2.a.</td>
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<tr>
<td></td>
<td><em>Natural &amp; Mathematical Sciences</em></td>
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<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
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<tr>
<td>&amp; CHEM 1515</td>
<td>and Chemistry II (LN)</td>
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<tr>
<td></td>
<td><em>Foreign Language</em></td>
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<tr>
<td>PSYC 3073</td>
<td>Neurobiological Psychology (N)</td>
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</tr>
</tbody>
</table>

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 GPA 2.50 in Major Requirements OR minimum grade of "C" in each course; AND 2.00 minimum GPA in all BIOL, MICR, & PBIO courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1604</td>
<td>Animal Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3023</td>
<td>General Genetics (N)</td>
<td>3</td>
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<tr>
<td>BIOL 3034</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4133</td>
<td>Evolution (N)</td>
<td>3</td>
</tr>
<tr>
<td>MICR 2123</td>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MICR 2132</td>
<td>Introduction to Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MICR 3033</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>PBIO 1404</td>
<td>Plant Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>Select 9 hours upper-division coursework from: BIOL, MICR, PBIO (excluding general education courses)</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Related Courses**  
Physiology, choose from:  
Biol 3204 Physiology (or)  
PBIO 4463 Plant Physiology & PBIO 4462 and Plant Physiology Laboratory  
Organic Chemistry, choose from:  
CHEM 3015 Survey of Organic Chemistry (or)  
CHEM 3053 Organic Chemistry I & CHEM 3112 and Organic Chemistry Laboratory & CHEM 3153 and Organic Chemistry II  

**Supplemental Courses**  
Select 6 hours upper-division coursework from the following (no more than 3 hours of general education in the natural sciences):  
ANSI 3543 Principles of Animal Nutrition  
BIOL  
BIOL (except BIOL 3053, BIOL 3123)  
CHEM  
ENGL 3323 Technical Writing  
ENTO  
ENVR  
GEOG  
GEOL  
HORT  
MATH  
MICR (except MICR 3103)  
NREM  
PBIO (except PBIO 3253, PBIO 3263)  
PHYS  
PLNT  
PLP  
PSYC 3073 Neurobiological Psychology (N)
Biology, BS

SOC 4153 Sociology of Health and Illness
SOC 4433 Environmental Sociology (S)
SOC 4453 Environmental Inequality (S)
SOIL
STAT

Hours Subtotal 54
Electives 2
Select 12 hours 12

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 7 additional upper-
division hours

Hours Subtotal 12

Total Hours 120

1 College and Departmental Requirements that may be used to meet
Gen Ed 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.
• Upper-Division Credit: Total hours must include at least 44 hours in
courses numbered 3000 or above.
• Hours in One Department: Hours in one department in excess of 54
will be added to the minimum total of 120 required for graduation.

College of Arts and Sciences
Requirements
1. General Education Requirements
No more than two courses (or eight hours) from the major
department 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, PBIOL,
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.

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 2024.