# Biology: Allied Health, BS

## Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2021-2022. Learn more about University Academic Regulation 3.1 [here](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>3.1</td>
<td>(Link to University Academic Regulations)</td>
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</tbody>
</table>

### General Education Requirements

**English Composition**

See Academic Regulation 3.5 [here](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**

- HIST 1103 Survey of American History 3
- or HIST 1483 American History to 1865 (H) 3
- or HIST 1493 American History Since 1865 (DH) 3
- POLS 1113 American Government 3

**Analytical & Quantitative Thought (A)**

- MATH 1813 Preparation for Calculus (A) (or higher) 3
- or MATH 1613 Trigonometry (A) 1
- STAT 4013 Statistical Methods I (A) 3
- or STAT 2013 Elementary Statistics (A) 3

**Humanities (H)**

Courses designated (H) 6

**Natural Sciences (N)**

Must include one Laboratory Science (L) course

- PHYS 1114 College Physics I (LN) 4
- or PHYS 2114 College Physics II (LN) 4
- PHYS 1614 University Physics I (LN) 4
- PHYS 2614 University Physics II (LN) 4

**Social & Behavioral Sciences (S)**

Course designated (S) 3

**Additional General Education**

Courses designated (A), (H), (N), or (S) 6

### 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**

(Transfer students with 15 hours exempt) 1

**Arts & Humanities**

### Major Requirements

Minimum GPA 2.50 in Major Requirements OR minimum grade of “C” in each course.

#### Core Courses

- BIOL 1114 Introductory Biology (LN) 4
- BIOL 1604 Animal Biology 4
- BIOL 3023 General Genetics 3
- BIOL 3034 General Ecology 4
- BIOL 4133 Evolution 3
- MICR 2123 Introduction to Microbiology 3
- MICR 2132 Introduction to Microbiology Laboratory 2
- MICR 3033 Cell and Molecular Biology 3
- PBIO 1404 Plant Biology (LN) 4

Select 6 hours upper-division coursework from: BIOL, MICR, PBIO (excluding general education courses).

#### Related Courses

- BIOL 3204 Physiology 4
- BIOL 3214 Human Anatomy 4
- CHEM 3013 Survey of Organic Chemistry 5
- CHEM 3012 and Survey of Organic Chemistry Laboratory 5

Select two of the following from different prefixes: 6

- BIOC 3653 Survey of Biochemistry 4
- BIOL 3233 Human Reproduction 4
- BIOL 4134 Embryology 4
- BIOL 4253 Pharmacology 4
- BIOL 4283 Endocrinology 4
- BIOL 4363 Principles of Toxicology 4
- BIOL 4524 Biological Laboratory Instrumentation 4
- HHP 3114 Physiology of Exercise 4
- MICR 3223 Advanced Microbiology 4
- MICR 3253 Immunology 4
- MICR 4053 Pathogenic Microbiology 4
- NSCI 4123 Human Nutrition and Metabolism I 4
- NSCI 4143 Human Nutrition and Metabolism II 4
- PBIO 4013 Biological Microtechnique 4
- PSYC 3443 Abnormal Psychology (S) 4
- PSYC 4263 Affective Neuroscience 4

### Hours Subtotal

55

### Electives

Select 11 hours

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See note 2.a.

**Natural & Mathematical Sciences**

- CHEM 1314 Chemistry I (LN) 4
- CHEM 1515 Chemistry II (LN) 5

**Foreign Language**

See note 3

0-6 hours

**Upper-Division General Education**

Select 6 hours outside major department

See note 2.c.
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 6 additional upper-division hours.

PSYC 1113 Recommended.

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<tbody>
<tr>
<td><strong>Hours Subtotal</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>120</td>
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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 GPA 2.00 in all BIOL, MICR & PBIO courses.
- **Upper-Division Credit**: Total hours must include at least 44 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 131 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.

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.

### Course Title Hours

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>Fall</td>
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<tr>
<td>ENGL 1113</td>
<td>Composition I or Critical Analysis and Writing I</td>
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<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
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<tr>
<td>MATH 1813</td>
<td>Preparation for Calculus (A)</td>
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<td><strong>General Education and College requirements</strong></td>
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<tr>
<td><strong>Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II or Critical Analysis and Writing II</td>
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<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
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<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
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<tr>
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<td><strong>Sophomore</strong></td>
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<td>BIOL 1604</td>
<td>Animal Biology</td>
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<td>CHEM 3013</td>
<td>Survey of Organic Chemistry</td>
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