# ZOOLOGY: PRE-MEDICAL SCIENCES, BS

Requirements for Students Matriculating in or before Academic Year 2017-2018. 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>
</thead>
</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

Select one of the following:

ENGL 1213 Composition II 3
ENGL 1413 Critical Analysis and Writing II
ENGL 3323 Technical Writing

**American History & Government**

HIST 1103 Survey of American History 3
POLS 1113 American Government 3

**Analytical & Quantitative Thought (A)**

MATH 1613 Trigonometry (A) 1 3
STAT 4013 Statistical Methods I (A) 1 3
or STAT 2013 Elementary Statistics (A)

**Humanities (H)**

Courses designated (H) 6

**Natural Sciences (N)**

Must include one Laboratory Science (L) course

Select one of the following:

PHYS 1114 General Physics (LN) & PHYS 1214 and General Physics (LN) 1 8
PHYS 2014 General Physics (LN) & PHYS 2114 and General Physics (LN) 1

**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**

A&S 1111 A&S First Year Seminar (transfer students with 15 hours exempt) 1

**Arts & Humanities**

See note 2.a.

**Natural & Mathematical Sciences**

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

CHEM 1314 General Chemistry (LN) & CHEM 1515 and General Chemistry (LN) 9

**Foreign Language**

See note 3

**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. Minimum 2.0 GPA in all BIOL courses

**Core Courses**

BIOL 1114 Introductory Biology (LN) 4
BIOL 1604 Animal Biology 4
BIOL 3023 General Genetics 2 3
BIOL 3034 General Ecology 4
BIOL 3104 Vertebrate Zoology 4
or BIOL 4104 General Parasitology
BIOL 3114 Vertebrate Morphology 4
BIOL 3204 Physiology 4
BIOL 4133 Evolution 2 3
BIOL 4700 Undergraduate Research Problems (1 hour) 1
or BIOL 4710 Internships in Integrative Biology

**Related Courses**

BIOC 3653 Survey of Biochemistry 3

**Supplemental Courses**

Select one of the following:

ENGL 3323 Technical Writing
ENGL 4563 Scientific & Tech Lit
GEOG 4203 Fundamentals of Geographic Information Systems
HIST 4523 American Environmental History (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)
SOC 4453 Environmental Inequality (S)

**Hours Subtotal** 57

**Electives**

Select 9 hours

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

Hours Subtotal 9
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.

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.
- Upper-Division Credit: Total hours must include at least 48 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, BOT, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, 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 from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMIS 2013</td>
<td>Introduction to American Indian Studies (D)</td>
<td>3</td>
</tr>
<tr>
<td>AMIS 4013</td>
<td>American Indian Sovereignty (D)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 3443</td>
<td>Peoples of Mesoamerica (IS)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4223</td>
<td>The Aztec Empire (H)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3693</td>
<td>Survey of Asian Art (H)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3733</td>
<td>History of Latin American Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART 4603</td>
<td>History of Ancient Egyptian Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 4653</td>
<td>History of Indian Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 4663</td>
<td>History of Chinese Art (H)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4673</td>
<td>History of Japanese Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 4683</td>
<td>Modern and Contemporary Art in Asia</td>
<td>3</td>
</tr>
<tr>
<td>ART 4703</td>
<td>Art East and West: Biases and Borrowings</td>
<td>3</td>
</tr>
<tr>
<td>ART 4713</td>
<td>The Visual Culture of the Islamic World (HI)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4763</td>
<td>Native American Art and Material Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHIN 1813</td>
<td>Elementary Chinese II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2963</td>
<td>Survey of Nonwestern Traditions (HI)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3183</td>
<td>Native American Literature (OH)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3190</td>
<td>Readings in Postcolonial and Multiethic Literature (African Novel)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 4330</td>
<td>Studies in Native American Literature</td>
<td>3-6</td>
</tr>
<tr>
<td>FLL 1000</td>
<td>Special Studies in Foreign Languages and Literatures (Arabic 2 &amp; Mvskoke2)</td>
<td>1-10</td>
</tr>
<tr>
<td>GEOG 3053</td>
<td>Introduction to Central Asian Studies (IS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3733</td>
<td>Russia and Its Neighbors (IS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3753</td>
<td>Asia (IS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3763</td>
<td>Africa (IS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3783</td>
<td>The Middle East (IS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1713</td>
<td>Survey of Eastern Civilization (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3013</td>
<td>Ancient Egypt and Israel (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3043</td>
<td>Ancient Mesopotamia: Iraq, Iran &amp; Syria from 4000-333 B.C. (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3053</td>
<td>Introduction to Central Asian Studies (IS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3123</td>
<td>The History of Modern Africa (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3133</td>
<td>African Diaspora History (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3153</td>
<td>Russia to 1861 (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3163</td>
<td>Russia Since 1861 (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3203</td>
<td>The Medieval World, 500-1500 (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3403</td>
<td>East Asia to 1800 (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3413</td>
<td>East Asia Since 1800 (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3423</td>
<td>Modern Japan (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3433</td>
<td>Modern China (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3443</td>
<td>Gender Relations in Chinese History (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3503</td>
<td>Medieval Islamic History (H)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3513</td>
<td>Modern Middle East (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3523</td>
<td>History of South Asia 1700 - Present (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3543</td>
<td>Israel &amp; Palestine in Modern Times (HI)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3553</td>
<td>Media and Popular Culture in the Arab Middle East (HI)</td>
<td>3</td>
</tr>
</tbody>
</table>
HIST 3583  Minorities and Diversity in the Middle East (H)  3
HIST 3793  Native American History (DH)  3
HONR 3033  Contemporary Cultures of the Non-Western World: Honors (IS)  3
JAPN 1813  Elementary Japanese II  3
JAPN 2813  Intermediate Japanese I  3
JAPN 3713  Intermediate Japanese II  3
MUSI 3583  Traditional World Music (HI)  3
PHIL 3943  Asian Philosophy (HI)  3
PHIL 4943  Indian Philosophy  3
PHIL 4953  East Asian Philosophy  3
POLS 3003  The Soviet Union: History, Society and Culture (IS)  3
POLS 3053  Introduction to Central Asian Studies (IS)  3
POLS 3123  Politics of Russia and Eurasia (I)  3
POLS 3163  Politics of Africa (I)  3
POLS 3223  Politics Of East Asia  3
POLS 3313  Politics Of The Middle East  3
REL 1103  Introduction to World Religions (HI)  3
REL 3573  The Religions of Native Americans (DH)  3
REL 4113  The World of Islam: Cultural Perspectives (HI)  3
REL 4213  Understanding Global Islam (HI)  3
REL 4223  Religions and Sects in the Middle East (HI)  3
RUSS 1813  Elementary Russian II  3
RUSS 3003  The Soviet Union: History, Society and Culture (IS)  3
RUSS 3053  Introduction to Central Asian Studies (IS)  3
RUSS 3123  Russian Culture and Civilization (H)  3
RUSS 4013  Survey of Russian Literature I  3
RUSS 4023  Survey of Russian Literature II  3
RUSS 4113  Russian Literature in Translation I (H)  3
RUSS 4123  Russian Literature in Translation II  3
SOC 4533  World Population Problems  3
SOC 4653  Gender and the Middle East (IS)  3

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 10 hours college credit in the same language, or equivalent proficiency (e.g., passing an advanced standing examination; completing a second-year or higher college-level course in the language, etc.).

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 any of the options listed above for the B.A. utilizing elective hours.

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 5 hours college credit in the same language with no grade below C (or pass an advanced standing examination equivalent to 5 hours of college credit).

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 adviser 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 2023.