

# MAJOR MAP FOR BACHELOR OF SCIENCE IN BIOLOGY (BIOLBS) 2016-17 THROUGH 2024-25 CATALOG YEARS

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_ Date: \_\_\_\_\_ Anticipated Graduation Semester: \_\_\_\_\_

## BIOLBS Degree Snapshot

### University Perspectives (0-1 hr)

\_\_\_\_\_ UNIV 10051, University Perspectives or exemption

### State Core English Composition (0-6 hrs)

\_\_\_\_\_ ENGL 10103, Composition 1 or exemption

\_\_\_\_\_ ENGL 10203, Composition 2 or exemption

### State Core US History or Government (3 hrs)

\_\_\_\_\_ US HIST/PLSC \_\_\_\_\_

### State Core Mathematics (0 hrs)

Met in major

### State Core Natural Sciences w/ labs (0 hrs)

Completed with major requirements

### State Core Social Sciences (9 hrs)

\_\_\_\_\_ Social Science \_\_\_\_\_

\_\_\_\_\_ Social Science \_\_\_\_\_

\_\_\_\_\_ Social Science \_\_\_\_\_

### State Core Fine Arts (3 hrs)

\_\_\_\_\_ Fine Art \_\_\_\_\_

### State Core Humanities (0-3 hrs, possibly met with PHIL from major)

\_\_\_\_\_ Humanities \_\_\_\_\_

### Philosophy Requirement (3 hrs)

Choose 1:

\_\_\_\_\_ PHIL 21003, Intro to Ethics (also counts as core humanities)

\_\_\_\_\_ PHIL 22003, Intro to Logic (also counts as core humanities)

\_\_\_\_\_ PHIL 33003, Environmental Ethics

\_\_\_\_\_ PHIL 42103, Philosophy of Science

### Mathematics for Major (7-14 hrs)

\_\_\_\_\_ MATH 11003, College Algebra (C or higher needed, or math placement score into Pre-Cal)

\_\_\_\_\_ MATH 13004 or 12003 (C or higher needed, or math placement score into Cal 1)

\_\_\_\_\_ MATH 24004, Calculus 1 (required)

\_\_\_\_\_ Statistics course \_\_\_\_\_ (required)

### Chemistry (19 hrs, each class is a pre-requisite to the next)

\_\_\_\_\_ CHEM 14103/14101, University Chemistry 1 (Pre-req-MATH 1203)

\_\_\_\_\_ CHEM 14203/14201, University Chemistry 2

\_\_\_\_\_ CHEM 36053/36051, Organic Chemistry 1

\_\_\_\_\_ CHEM 36203/36201, Organic Chemistry 2

\_\_\_\_\_ CHEM 38103, Biochemistry

### Physics (8 hrs)

\_\_\_\_\_ PHYS 20103/20101, College Physics 1 (Pre-req: [MATH 11003 and 12003] or MATH 13003, 22003, or 24004. Or Math placement)

\_\_\_\_\_ PHYS 20203/20201, College Physics 2 (Pre-req: PHYS 20103 or 20304)

### Biology Core (17 hrs)

\_\_\_\_\_ BIOL 10104, Biology for majors (includes lab. Co or pre-req: CHEM 14103)

\_\_\_\_\_ BIOL 25473, Cell Biology (Pre-req: BIOL 10104. CHEM 14203 preferred)

\_\_\_\_\_ BIOL 23373, Genetics (Pre-req: BIOL 10104, CHEM 14103, and MATH 11003 (or MATH 21003) or higher math)

\_\_\_\_\_ BIOL 38773, General Ecology (Pre-req: 7 hrs BIOL classes)

\_\_\_\_\_ BIOL 30473, Evolutionary Biology (Pre-req: BIOL 23373)

Choose 1 lab:

\_\_\_\_\_ BIOL 25471, 23371 OR 38771

### Biology Electives (23 hrs)

12 hrs must be 40000+, 6 hrs must be 30000+, 2 courses must have labs and be higher than 20000+ (hours may vary for each class, so number of classes taken will vary)

12 hrs 40000+

6 hrs 30000+

2 20000+ labs (see below for excluded courses)

\_\_\_\_\_ BIOL w/ lab \_\_\_\_\_

\_\_\_\_\_ BIOL w/ lab \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

\_\_\_\_\_ BIOL \_\_\_\_\_

### General Electives (11-25 hrs)

How you use these hours will depend on your educational and career goals. Early in your degree you might use this section to jot down ideas for how to plan. As you get closer to graduation, you might use this section to track which classes you've taken outside the above requirements.

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## Advising Notes

## Graduation Plan

Use the following additional resources, in addition to this major map, to complete your graduation plan ([Catalog](#), and your [Degree Audit](#) in UAconnect). Many students have more than one major, minor, or pre-professional goal that has additional required classes. This tool allows you to combine all your educational goals in to one plan.

High School credit	List all Advanced Placement, International Baccalaureate, Dual or Concurrent credit			
Year	Fall	Spring	Summer	Total
Year 1				Total 1 <sup>st</sup> year credit hours (aim for 30):
Year 2				Total 2 <sup>nd</sup> year credit hours (aim for 60):
Year 3				Total 3 <sup>rd</sup> year credit hours (aim for 90):
Year 4				Total 4 <sup>th</sup> year credit hours (Must be at least 120):

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## Graduation Checklist (does your plan include the following):

- 2.0 minimum overall UofA GPA (Courses taken at other colleges or universities are not factored into this GPA)
- All state minimum core requirements
- All Major(s)/Minor(s) requirements
- [Writing requirement](#) complete
- At least 50% of each major/minor taken from UofA
- 24 hours of 30000+ classes exclusively from Fulbright College of Arts and Sciences classes
- 30 hours of 30000+ classes exclusively from the University of Arkansas. This can include courses taken for the 24-hour rule.
- 40 hours of upper-level classes. (30000+ or 20000+ with a pre-requisite. Can include transfer credit.) This can include courses taken for the 24-hour and 30-hour rules.
- 120 total eligible credit hours (see below for a list of ineligible classes)

## **Biology Department Information:**

Note about Pre-requisites: Due to the nature of math placement, many science classes will offer multiple pre-requisite options. This document lists the class that serves as the pre-requisite, but see the [catalog](#) for additional options. Math classes need to be passed with a C or higher to serve as pre-requisites.

Please visit <https://catalog.uark.edu/undergraduatecatalog> for an extensive list of core, major, graduation, and pre-requisite requirements. To read more about individual classes, visit the [courses of instruction](#) page for course descriptions.

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## Degree Requirement Breakdown by Category

The following information is designed to help you navigate your experience in your degree and answer common questions that may come up for each requirement.

Category	Degree Requirements	Curriculum Notes
<a href="#"><u>UNIVERSITY PERSPECTIVES</u></a>  0-1 hr	<ul style="list-style-type: none"> <li>• <b>UNIV 10051</b>, University Perspectives (or <b>UNIV 100H1</b>)</li> </ul>	Or equivalent from another University of Arkansas college. (AFLS 102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H), HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB 11101, WCOB/BUSI 111H1)  <b>Note:</b> students who transfer to the University of Arkansas with at least 24 credit hours will have this requirement waived.
<a href="#"><u>STATE CORE COMPOSITION</u></a>  0-6 hrs	<ul style="list-style-type: none"> <li>• <b>ENGL 10103</b>, Composition 1 or SAT/ACT exemption (or <b>ENGL 101H3</b>)</li> <li>• <b>ENGL 10203</b>, Composition 2 or SAT/ACT exemption (or <b>ENGL 102H3</b>)</li> </ul>	See <a href="#">Catalog</a> for information about placement and/or exemption.
<a href="#"><u>STATE CORE US HISTORY or GOVERNMENT</u></a>  3 hrs	<b>Choose 1: *</b> <ul style="list-style-type: none"> <li>• HIST 20003, History of the American People to 1877</li> <li>• HIST 20103, History of the American People 1877 to Present</li> <li>• PLSC 20003, American National Government (or PLSC 200H3)</li> </ul>	*Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.
<a href="#"><u>STATE CORE MATHEMATICS</u></a>  0 hrs	Met in major	
<a href="#"><u>STATE CORE NATURAL SCIENCES CORE</u></a>  0 hrs	This requirement is completed through required major courses.	
<a href="#"><u>STATE CORE SOCIAL SCIENCES</u></a>  9 hrs	<b>Choose 3: *</b> <ul style="list-style-type: none"> <li>• AGEC 11003, Principles of Agriculture Microeconomics (or AGEC 110H3)</li> <li>• AGEC 21003, Principles of Agriculture Macroeconomics (or AGEC 210H3)</li> <li>• ANTH 10203, Intro to Cultural Anthropology (or ANTH 102H3)</li> <li>• COMM 10203, Communication in a Diverse World (or ANTH 102H3)</li> <li>• ECON 21003, Principles of Macroeconomics (or ECON 210H3)</li> <li>• ECON 22003, Principles of Microeconomics (or ECON 220H3)</li> <li>• ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3)</li> <li>• EDST 20003, Introduction to Educational Studies</li> <li>• GEOG 11103, Human Geography (or GEOG 111H3)</li> <li>• GEOG 21003, World Regional Geography (or GEOG 210H3)</li> <li>• HDFS 14003, Life Span Development (HDFS 140H3)</li> <li>• HDFS 24103, Family Relations (or HDFS 241H3)</li> <li>• HDFS 26003, Rural Families &amp; Communities (HDFS 260H3)</li> </ul>	Students must take classes from at least two departments in the Social Sciences category.  *Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.

**Last Updated:** Aug 19, 2024

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	<ul style="list-style-type: none"> <li>• HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3)</li> <li>• HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3)</li> <li>• HIST 20003, History of the American People to 1877</li> <li>• HIST 20103, History of the American People 1877 to Present</li> <li>• HIST 20903, Animals in World History</li> <li>• HUMN 111H4, Honors Roots of Culture to 500 C.E. (Honors only)</li> <li>• HUMN 211H4, Honors Birth of Modern Culture, 1600-1900 (honors only)</li> <li>• INST/PLSC 28103, Intro to International Relations &amp; Global Studies (or INST/PLSC 281H3)</li> <li>• JOUR 10203, Media and Society</li> <li>• PLSC 20003, American National Government (or PLSC 200H3)</li> <li>• PLSC 20103, Intro to Comparative Politics</li> <li>• PLSC 21003, State and Local Government</li> <li>• PSYC 20003, General Psychology (or PSYC 200H3)</li> <li>• RESM 28503, Leisure and Society (or RESM 285H3)</li> <li>• SOCI 10103, General Sociology (or SOCI 201H3)</li> <li>• SOCI 20103, Social Problems</li> <li>• STEM 20003, The Art of STEM Communication</li> </ul>	
<p><b><u>STATE CORE FINE ARTS</u></b></p> <p><b>3 hrs</b></p>	<p><b>Choose 1: *</b></p> <ul style="list-style-type: none"> <li>• ARCH 10003, Architecture Lecture (or ARCH 100H3)</li> <li>• ARHS 10003, Art Lecture (or ARHS 100H3)</li> <li>• COMM 10003, Film Lecture (or COMM 100H3)</li> <li>• DANC 10003, Movement and Dance</li> <li>• ENGL 20103, Creative Writing 1</li> <li>• HUMN 211H4, Honors Birth of Modern Culture 1600-1900 (honors only)</li> <li>• LARC 10003, The American Landscape (or LARC 100H3)</li> <li>• MLIT 10003, Experiencing Music (or MLIT 100H3)</li> <li>• MLIT 10103, Music and Society (music majors only. Or MLIT 101H3)</li> <li>• MLIT 13303, Popular Music</li> <li>• THTR 10003, Theatre Appreciation (or THTR 100H3)</li> <li>• THTR 10103, Musical Theatre Appreciation (or THTR 101H3)</li> <li>• THTR 16803, Acting I</li> <li>• THTR 18803, Acting 1 for Theatre majors</li> </ul>	<p>*Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.</p>
<p><b><u>STATE CORE HUMANITIES</u></b></p> <p><b>0-3 hrs</b></p>	<p><b>Choose 1: *</b></p> <ul style="list-style-type: none"> <li>• AAST 20203, The African American Experience</li> <li>• ANTH 10303, Introduction to Archeology</li> <li>• ARCH 10103, Diversity and Design (or ARCH 101H3)</li> <li>• CLST 10003, Introduction to Classical Studies: Greece (or CLST 100H3)</li> <li>• CLST 10103, Introduction to Classical Studies: Rome (or CLST 101H3)</li> <li>• COMM 12303, Media, Community and Citizenship (or COMM 123H3)</li> <li>• DANC 10003, Dance Appreciation</li> </ul>	<p>*Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.</p>

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	<ul style="list-style-type: none"> <li>• DASC 21303, Data Privacy &amp; Ethics</li> <li>• ENGL 11103, World Literature: Beginnings to 1650 CE (or ENGL 111H3)</li> <li>• ENGL 11203, World Literature: 1650 CE to Present (or ENGL 112H3)</li> <li>• ENGL 12103, Introduction to Literature (or ENGL 121H3)</li> <li>• ENGL 20103, Creative Writing I</li> <li>• GNST 20003, Introduction to Gender Studies (or GNST 200H3)</li> <li>• HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3)</li> <li>• HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3)</li> <li>• HIST 20003, History of the American People to 1877</li> <li>• HIST 20103, History of the American People 1877 to Present</li> <li>• HUMN 112H4, Honors Equilibrium of Cultures 500-1600 (Honors only)</li> <li>• HUMN 22103, Introduction to World Religions</li> <li>• LALS 20103, Introduction to Latin American and Latino Studies</li> <li>• MRST 20103, Introduction to Medieval and Renaissance Studies</li> <li>• MUSY 20003, Music in World Cultures (or MUSY 200H3)</li> <li>• PHIL 20003, Introduction to Philosophy (or PHIL 200H3)</li> <li>• PHIL 21003, Introduction to Ethics**</li> <li>• PHIL 22003, Logic**</li> <li>• PHIL 23003, Human Nature and the Meaning of Life</li> <li>• PHIL 31003, Ethics and the Professions</li> <li>• THTR 10003, Theatre Appreciation (or THTR 100H3)</li> <li>• THTR 10103, Musical Theatre Appreciation (or THTR 101H3)</li> <li>• Any Intermediate level foreign language numbered at the 20000 level</li> </ul>	<p>**If taken for Biology major requirements, classes can also count here.</p>
<p style="text-align: center;"><a href="#"><u>PHILOSOPHY REQUIREMENT</u></a></p> <p style="text-align: center;"><b>3 hrs</b></p>	<p><b>Choose 1:</b></p> <ul style="list-style-type: none"> <li>• PHIL 21003, Intro to Ethics (can also count above for humanities)</li> <li>• PHIL 22003, Intro to Logic (can also count above for humanities)</li> <li>• PHIL 33003, Environmental Ethics (does not count for humanities core)</li> <li>• PHIL 42103, Philosophy of Science (does not count for humanities core)</li> </ul>	<p>PHIL 21003 and 22003 overlap with the state minimum <a href="#"><u>humanities core</u></a> requirement. If a student takes PHIL 33003 or 42103, they will also need a class from the humanities core <a href="#"><u>list</u></a>.</p>
<p style="text-align: center;"><a href="#"><u>MATHEMATICS FOR MAJOR</u></a></p> <p style="text-align: center;"><b>7-14 hrs</b></p>	<ul style="list-style-type: none"> <li>• Possible Pre-requisite: MATH 11003 (C or higher needed, or math placement score in to Pre-Cal)*</li> <li>• Possible Pre-requisite: MATH 13004 or 12003 (C or higher needed, or math placement score in to Cal 1)*</li> <li>• <b>MATH 24004</b>, Calculus 1 (required)**</li> <li>• <b>Choose 1</b> (required):             <ul style="list-style-type: none"> <li>○ <b>MATH 21003</b>, Principles of Statistics</li> <li>○ <b>STAT 28233</b>, Biostatistics</li> <li>○ <b>STAT 30043/30041</b>, Statistical Methods and lab</li> </ul> </li> </ul>	<p>*Based on ACT/SAT or other math placement scores, students may need to enroll in additional remediation related courses. See <a href="#"><u>catalog</u></a> or <a href="#"><u>math placement</u></a> website for additional information.</p> <p>**MATH 24005, Calculus I with Review, may also count here.</p>

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<p><b>CHEMISTRY</b></p> <p>19 hrs</p>	<ul style="list-style-type: none"> <li>• <b>CHEM 14103/14101</b>, University Chemistry 1 (Pre-req: MATH 11003)</li> <li>• <b>CHEM 14203/14201</b>, University Chemistry 2</li> <li>• <b>CHEM 36053/36051</b>, Organic Chemistry 1</li> <li>• <b>CHEM 36203/36201</b>, Organic Chemistry 2</li> <li>• <b>CHEM 38103</b>, Biochemistry*</li> </ul>	<p><b>NOTE:</b> each chemistry class is the pre-requisite to the next class. Students may not proceed to the next class before passing the previous class.</p> <p>*Honors students may take CHEM 481H3, Honors biochemistry I, in lieu of CHEM 38103 but only if they also take CHEM 484H3, Honors biochemistry II. (CHEM 484H3 may be substituted in the Biology electives for students who do this.)</p>
<p><b>PHYSICS</b></p> <p>8 hrs</p>	<ul style="list-style-type: none"> <li>• <b>PHYS 20103/20101</b>, College Physics 1 (Pre-req: [MATH 11003 and 12003] or MATH 13004, MATH 22003 or 24004. Or Math placement)</li> <li>• <b>PHYS 20203/20201</b>, College Physics 2 (Pre-req: PHYS 20103 or 20304)</li> </ul>	<p>Students may also take the following classes, but will have to take Calculus 2 in addition to major math requirements:</p> <ul style="list-style-type: none"> <li>• PHYS 20304, University Physics 1 (includes lab. Pre-req: MATH 24004)</li> <li>• PHYS 20404, University Physics 2 (includes lab. Pre-req: MATH 25004 and PHYS 20304)</li> </ul>
<p><b>BIOLOGY CORE</b></p> <p>17 hrs</p>	<ul style="list-style-type: none"> <li>• <b>BIOL 10104</b>, Biology for majors (includes lab. Co or pre-req: CHEM 14103)*</li> <li>• <b>BIOL 25473</b>, Cell Biology (Pre-req: BIOL 10104. CHEM 14203 preferred)</li> <li>• <b>BIOL 23373</b>, Genetics (Pre-req: BIOL 10104, CHEM 14103, and MATH 11003 (or MATH 21003) or higher math)</li> <li>• <b>BIOL 38773</b>, General Ecology (Pre-req: 7 hrs BIOL classes)</li> <li>• <b>BIOL 30473</b>, Evolutionary Biology (Pre-req: BIOL 23373)</li> </ul> <p>Choose 1 lab:</p> <ul style="list-style-type: none"> <li>• <b>BIOL 25471, 23371 OR 38771</b></li> </ul>	<p><b>*Note:</b> A student who completes BIOL 10103/BIOL 10101 Principles of Biology/Lab, with a grade of B or better in both courses may request a <a href="#">substitution</a> from the department for BIOL 10104. BIOL 10104 is the preferred course, and substitutions are not guaranteed. No AP credit for BIOL 10103/10101 will be accepted in lieu of BIOL 10104.</p>
<p><b>BIOLOGY ELECTIVES</b></p> <p>23 hrs</p>	<p>Take <b>23 hours</b> of BIOL electives, which must include:</p> <ul style="list-style-type: none"> <li>• <b>12 hrs</b> at the 40000+ level</li> <li>• <b>6 hrs</b> at the 30000+ level</li> <li>• at least <b>two</b> 20000+ level courses with labs. This DOES NOT include: <ul style="list-style-type: none"> <li>○ BIOL 2003/2001,</li> <li>○ BIOL 24003/24001</li> <li>○ BIOL 24103/24101,</li> </ul> </li> <li>• Only 4 hours can be 10000 level classes. This CAN include: <ul style="list-style-type: none"> <li>○ BIOL 10004, Biological Principles</li> <li>○ BIOL 10303/10301, Plant Biology</li> <li>○ BIOL 10503/10501, Principles of Zoology</li> <li>○ BIOL 16973, Biology Bridges</li> </ul> </li> </ul> <p>A 10000 level biology transfer course (including BIOL 1999T or BIOL 2999T)</p> <ul style="list-style-type: none"> <li>○ <i>It CANNOT include BIOL 10103/10101 or BIOL 10104.</i></li> </ul> <p><b>NOTE:</b> BIOL courses vary in hours, so there is not a set number of classes required to get to 23 hrs. Because there is so much variation in options, a student's Degree Audit for this section in UAconnect may not always be accurate until the student asks their academic advisor to manually correct it.</p> <p><b>Courses that count for lab requirement:</b> Any 20000+ class that lists a <i>lab component</i> as part of its course description can count for one of the two required labs. BIOL 4807V/480HV (if</p>	<p>BIOL 11014 and CHEM 14103/14101 &amp; CHEM 14203/14201 are the pre-reqs to many advanced BIOL courses but some courses may have additional <a href="#">pre-requisites</a>.</p> <p>Classes that transfer to the university as BIOL 3999T or 4999T can count in this category as long as students still meet the 50% rule. Not all 999T classes pull into the degree audit automatically, so students may need to request classes be moved into the minor by their academic advisor.</p> <p><b>Common Substitutions and Exceptions</b> (All still require a <a href="#">Substitution</a> form):</p> <ul style="list-style-type: none"> <li>• Students may ask for one of the following to count for BIOL 4 hours of non-30000+ electives (but not for a lab requirement): BIOL 24103/24101 or BIOL 24003/24001</li> <li>• Honors students who have permission to complete their thesis in a different discipline can use the thesis hours from the honors courses in that discipline (i.e.: PSYC 399H244V) for up to 6-hours of BIOL 40000-level electives – <u>This is in addition to the substitutions outlined in the biology electives section. Students who would like to do this need to request this using the substitution form.</u></li> <li>• Students may ask for up to 2 of the following non-BIOL courses to count for BIOL electives: <ul style="list-style-type: none"> <li>• ANTH 34303 Human Evolution</li> <li>• ANTH 35303 Medical Anthropology</li> </ul> </li> </ul>

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	<p>lab included in the topic), 4997V/499HV also count as labs. Classes with labs:</p> <ul style="list-style-type: none"> <li>• BIOL 23371 Genetics lab (If not taken for BIOL core)</li> <li>• BIOL 25471 Cell lab (If not taken for BIOL core)</li> <li>• BIOL 30171 Plant Pathology</li> <li>• BIOL 30271 Introduction to Insect Identification</li> <li>• BIOL 34074 Comparative Vert Morphology</li> <li>• BIOL 38771 Ecology lab (If not taken for BIOL core)</li> <li>• BIOL 40063 Lab in Prokaryote Biology</li> <li>• BIOL 40173 Insect Behavior in Prokaryote Biology</li> <li>• BIOL 40274 Insect Diversity and Taxonomy</li> <li>• BIOL 40573 Insect Ecology</li> <li>• BIOL 41074 Taxonomy of Flowering Plants</li> <li>• BIOL 41174 Dendrology</li> <li>• BIOL 4143 Advanced Methods in Microscopy (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 41774 Conservation Genetics</li> <li>• BIOL 42384 Comparative Physiology</li> <li>• BIOL 42491 Ichthyology Laboratory</li> <li>• BIOL 4404 Comparative Botany (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 4424 Mycology (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 45151 Population Ecology lab</li> <li>• BIOL 45574 Developmental Biology</li> <li>• BIOL 45703 Introduction to Research in Animal Development and Evolution</li> <li>• BIOL 4634 Wetlands Ecology and management (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 47181 Basic Immunology lab</li> <li>• BIOL 47203 Laboratory in Microbial Fermentation</li> <li>• BIOL 4724 Protistology (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 47374 Wildlife Management Techniques</li> <li>• BIOL 47474 Fish Biology</li> <li>• BIOL 47673 Ornithology</li> <li>• BIOL 47774 Biometry</li> <li>• BIOL 4783 Mammalogy (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 4814 Limnology Mammalogy (no longer taught, but counts as a lab if taken)</li> <li>• BIOL 48373 Animal Behavior</li> <li>• BIOL 48474 Community and Ecosystem Ecology</li> <li>• BIOL 48673 Analysis of Animal Populations</li> <li>• BIOL 4807V: Special Topics "Microbial Fermentation" topic</li> <li>• BIOL 4807V: Special Topics "Ichthyology" topic</li> </ul>	<ul style="list-style-type: none"> <li>• ANTH 45203 Dental Science</li> <li>• CHEM 484H3, Honors Biochemistry II (if CHEM 481H3 is also completed)</li> <li>• PSYC 30903 Developmental Psychology</li> <li>• PSYC 31703 Biopsychology</li> <li>• PSYC 41803 Behavioral Neuroscience</li> <li>• PBHL 4553 Environmental Health (not taught anymore but counts if previously taken)</li> <li>• PBHL 46103 Principles of Epidemiology</li> <li>• PBHL 46203 Human Diseases</li> <li>• POSC/ANSC 49203 Brain and Behavior</li> </ul>
<p><b><u>GENERAL ELECTIVES</u></b>  <b>11-25 hrs</b></p>	<p>Hours will vary depending on math placement, Philosophy course choice, and whether a student is exempt from ENGL 10103 and 10203.</p>	<p>Some general electives may need to be upper level to meet college and university residency requirements. See Graduation Checklist on page 3 for more information.</p>
<p><b><u>WRITING REQUIREMENT</u></b></p>	<p>The college writing requirement may be satisfied in one of several ways:</p> <ul style="list-style-type: none"> <li>• Completion of a term paper with a grade of B or better in a BIOL 30000+ course documented with the <a href="#">Writing Requirement Declaration form</a></li> <li>• Completion of BIOL 4987V</li> <li>• Successful honors thesis defense</li> </ul>	<p><b><u>BIOL Courses with Potential Writing Requirement Options<sup>^</sup></u></b>  <sup>^</sup>You will still need to check on the course's syllabus, and with the professor regarding the completion of the writing requirement.  <sup>^</sup>The list does not guarantee a writing requirement will be offered. This is simply a list of courses that have historically offered writing requirement options. Your advisor has compiled this list based on discussions with other students who have completed writing requirements within these courses in previous semesters.</p>



# MAJOR MAP FOR BACHELOR OF SCIENCE IN BIOLOGY (BIOLBS) 2016-17 THROUGH 2024-25 CATALOG YEARS

	<p><i>NOTE: students completing a paper in a BIOL 30000+ course or in BIOL 4807V may not also use the paper for credit in BIOL 498V</i></p>	<p>^This is not an exhaustive list. ^ BIOL 4807V: Special Topics courses are likely 3 credit hours each, and typically offered irregularly.</p> <ul style="list-style-type: none"> <li>• BIOL 45574, Developmental Biology</li> <li>• BIOL 41573/42572, Global Change Seminar</li> <li>• BIOL 42373, Genomics &amp; Bioinformatics</li> <li>• BIOL 44373, Principles of Evolution</li> <li>• BIOL 43373, Biotechnology in Agri</li> <li>• BIOL 47973, Intro to Neurobiology</li> <li>• BIOL 43273, Comp Neurobiology</li> <li>• BIOL 48373, Animal Behavior</li> <li>• BIOL 4807V, Microbial Ferm lab</li> <li>• BIOL 4807V, Microbial Genomics</li> <li>• BIOL 4807V, Research Ecology</li> <li>• BIOL 4807V, Evolutionary Ecology</li> </ul>
<p><b><u>HONORS</u></b></p>	<p><b>Minimum Requirements for Honors:</b></p> <ul style="list-style-type: none"> <li>• Maintain cumulative grade point average of 3.5 in all coursework.</li> <li>• Complete a minimum of 12 hours of honors courses from the UofA (including up to 6 hours of BIOL 499HV).</li> <li>• Complete and defend Honors Thesis</li> </ul> <p>See <a href="#">Catalog</a> for full description of requirements.</p>	<p><b>Honors Thesis Timeline:</b> Honors students should consistently check the <a href="#">honors thesis timeline</a> to stay on track to complete your honors thesis.</p> <p><b>College Honors:</b> Students who also are following the College Honors Plan need to complete additional requirements. Those can be found on the advising website (consult with an academic advisor if you have questions about your catalog year):</p> <ul style="list-style-type: none"> <li>• <a href="#">Academic Planning Resources</a></li> </ul>