



UATEACH ADVISING GUIDE  
Bachelor of Science (BS) Biology /Grades 7-12 Life Science Licensure

**University Core Requirements**

Please see your Fulbright adviser for an official degree plan.

**ENGLISH COMPOSITION (2 courses • 6 hours)**

- ENGL 1013 Composition I
- ENGL 1023 Composition II

**U.S. HISTORY (1 course-3 hours)**

- HIST 2003 History of the American People to 1877
- HIST 2013 History of the American People 1877 to Present
- PLSC 2003 American National Government

*Note: U.S. History & Government courses cannot be used more than once within the University Core.*

**FINE ARTS (1 course • 3 hours)**

- ARCH 1003 Architecture Lecture
- ARHS 1003 Art Lecture
- COMM 1003 Film Lecture
- DANC 1003 Movement and Dance
- LARC 1003 The American Landscape
- MLIT 1003 Music Lecture
- MLIT 1013 Music Lecture for Music Majors
- THTR 1003 Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

**HUMANITIES (1 course • 3 hours)**

- AAST 2023 The African American Experience
- ARCH 1013 Diversity and Design
- CLST 1003 Intro to Classical Studies: Greece
- CLST 1013 Intro to Classical Studies: Rome
- COMM 1233 Media, Community, and Citizenship
- ENGL 1213 Intro to Literature
- GNST 2003 Intro to Gender Studies
- HUMN 1124H\* Honors Eq. of Cultures, 500-1600
- HUMN 2124H\* Honors 20th Century Global Culture
- MUSY 2003 Music in World Cultures
- PHIL 2003 Intro to Philosophy**
- PHIL 2103 Intro to Ethics**
- PHIL 2203 Logic**
- PHIL 3103 Ethics and the Professions**
- WLIT 1113 World Literature I
- WLIT 1123 World Literature II
- World language at Intermediate I (2003) level

- UNIV 1001: University Perspectives**  
(Freshmen must complete during first year)

**SOCIAL SCIENCES (3 courses from at least 2 fields • 9 hours)**

- AGECE 1103 Principles of Agricultural Microeconomics
- AGECE 2103 Principles of Agricultural Macroeconomics
- ANTH 1023 Intro to Cultural Anthropology
- COMM 1023 Communication in a Diverse World
- ECON 2013 Principles of Macroeconomics
- ECON 2023 Principles of Microeconomics
- ECON 2143 Basic Economics: Theory and Practice
- GEOS 1123 Human Geography
- GEOS 2003 World Regional Geography
- HESC 1403 Life Span Development
- HESC 2413 Family Relations
- HIST 1113 Institutions and Ideas of World Civilizations I
- HIST 1123 Institutions and Ideas of World Civilizations II
- HIST 2003 History of the American People to 1877
- HIST 2013 History of the American People 1877 to Present
- HUMN 1114H\* Honors Roots of Culture to 500 C.E.
- HUMN 2114H\* Honors Birth of Modern Culture, 1600-1900
- PLSC 2003 American National Government
- PLSC 2013 Intro to Comparative Politics
- PLSC 2203 State and Local Government
- PSYC 2003 General Psychology
- RESM 2853 Leisure and Society
- RSOC 2603 Rural Sociology
- SOCI 2013 General Sociology
- SOCI 2033 Social Problems

**Note:** Biology majors must complete a philosophy course for their humanities requirement.

## UAteach Advising Guide

### Bachelor of Science (BS) in Biology /Grades 7-12 Life Science Licensure

#### Major Requirements

Please see your Fulbright adviser for an official degree plan.

##### CHEMISTRY (5 courses – 19 hrs)

- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- CHEM 3603/3601L Organic Chemistry I
- CHEM 3613/3611L Organic Chemistry II
- CHEM 3813 Introduction to Biochemistry

##### Math (1 course - 4 hrs.)

- MATH 2554 Calculus I
- Math 2564 Calculus II (recommended)

##### Statistics (1 course – 3-4 hrs.)

- STAT 2023 Biostatistics
- STAT 2303 Principles of Statistics
- STAT 4003/4001L Statistical Methods

##### Physics (2 courses – 8 hrs.)

- PHYS 2013/2011L College Physics I
  - PHYS 2033/2031L College Physics II
- or
- PHYS 2054 University Physics I
  - PHYS 2074 University Physics II

##### UAteach Course Requirements (26 hours)

- ARSC 1201 Step 1: Inquiry Approaches to Teaching
- ARSC 1221 Step 2: Inquiry Based Lesson Design
- STEM 2103 Knowing and Learning
- STEM 2203 Classroom Interactions
- \*BIOL 3273 Research Methods**
- STEM 4333 Perspectives on Science
- STEM 3303 Project Based Instruction
- STEM 4409 Teaching Internship

##### BIOLOGY CORE (4 courses + 1 lab • 13 hours)

- BIOL 2533 Cell Biology
- BIOL 2323 General Genetics
- BIOL 3863 General Ecology
- A lab from one of the three BIOL courses above
- BIOL 3023 Evolutionary Biology

##### \*\*BIOLOGY ELECTIVES (27 hours minimum)

- BIOL 1543/1541L Principles of Biology
- BIOL 1603/1601L Principles of Zoology
- BIOL 1613/1611L Plant Biology

*Note: No more than 8 hours from above may apply*

Select **two lab courses** numbered 2000 or higher. This includes additional BIOLOGY CORE labs, special topics/research courses with a lab, and other BIOL courses numbered 3000 or higher with a lab.

- \_\_\_\_\_
- \_\_\_\_\_

##### BIOL courses 3000 level or higher (6 hrs min.)

- \_\_\_\_\_
- \*BIOL 3273 Research Methods**

##### BIOL courses 4000 level or higher (12 hours min.)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

##### **Biology Writing Requirement**

\*Students can use their Inquiry IV paper in BIOL 3273 as a starting point for the Biology Writing Requirement- **under the supervision of a biology faculty member**. Otherwise the requirement can be met by completion of BIOL 498V supervised by a biology faculty member, or by an honors' thesis.

##### Notes:

\*BIOL 3273 meets both biology major and UAteach minor requirements.

\*\*The following courses cannot be used in the BIOLOGY ELECTIVES section: BIOL 2013/2011L General Microbiology, BIOL 2213/2211L Human Physiology, and BIOL 2443/2441L Human Anatomy. However, non-BIOL courses that are related to biology may be counted with permission by the department.

## UAteach Advising Guide

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#### Sample Course Sequence

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Fall Semesters		Hours	Spring Semesters		Hours
<i>Freshman Year</i> (total of 30 - 31 credit hours)					
<b>ARSC 1201</b>	<b>Step I Inquiry Approaches to Teaching</b>	<b>1</b>	<b>ARSC 1221</b>	<b>Step II Inquiry Based Lesson Design</b>	<b>1</b>
<b>CHEM 1103/1L</b>	<b>University Chemistry I</b>	<b>4</b>	<b>CHEM 1123/1L</b>	<b>University Chemistry II</b>	<b>4</b>
<b>MATH 2554</b>	<b>Calculus I</b>	<b>4</b>	<b>BIOL 2323(/1L)</b>	<b>General Genetics (lab opt.)</b>	<b>3/4</b>
<b>BIOL 1543/1L</b>	<b>Principles of Biology</b>	<b>4</b>	<b>ENGL 1023</b>	<b>English Composition II</b>	<b>3</b>
<b>ENGL 1013</b>	<b>English Composition I</b>	<b>3</b>	<b>UNIV 1001</b>	<b>University Perspectives</b>	<b>1</b>
			<b>FA/HIST/SS</b>	<b>Required Core Electives</b>	<b>3</b>
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15-16</b>
<i>Sophomore Year</i> (total of 32 credit hours)					
<b>STEM 2103</b>	<b>Knowing and Learning</b>	<b>3</b>	<b>STEM 2203</b>	<b>Classroom Interactions</b>	<b>3</b>
<b>CHEM 3603/1L</b>	<b>Organic Chemistry I</b>	<b>4</b>	<b>CHEM 3613/1L</b>	<b>Organic Chemistry II</b>	<b>4</b>
<b>BIOL 2533(/1L)</b>	<b>Cell Biology (lab opt.)</b>	<b>3/4</b>	<b>BIOL 3863</b>	<b>General Ecology (lab opt.)</b>	<b>3/4</b>
<b>FA/HIST/SS</b>	<b>Required Core Electives</b>	<b>3</b>	<b>FA/HIST/SS</b>	<b>Required Core Electives</b>	<b>3</b>
<b>PHIL</b>	<b>Required Core Elective</b>	<b>3</b>	<b>FA/HIST/SS</b>	<b>Required Core Electives</b>	<b>3</b>
	<b>TOTAL</b>	<b>16-17</b>		<b>TOTAL</b>	<b>16-17</b>
<i>Junior Year</i> (total of 30-34 credit hours)					
<b>BIOL 3023</b>	<b>Evolutionary Biology</b>	<b>3</b>	<b>BIOL 3273</b>	<b>Research Methods</b>	<b>3</b>
<b>BIOL Elective</b>	<b>Biology course level 3000</b>	<b>3</b>	<b>BIOL Elective</b>	<b>Biology course level 4000</b>	<b>3</b>
<b>PHYS 2013/1L</b>	<b>College Physics I</b>	<b>4</b>	<b>PHYS 2033/1L</b>	<b>College Physics II</b>	<b>4</b>
<b>CHEM 3813</b>	<b>Introduction to Biochemistry</b>	<b>3</b>	<b>FA/HIST/SS</b>	<b>Required Core Electives</b>	<b>3</b>
<b>STAT 2023</b>	<b>Biostatistics</b>	<b>3</b>	<b>STEM 4333</b>	<b>Perspectives on Math and Science</b>	<b>3</b>
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>16</b>
<i>Senior Year</i> (total of 27 credit hours)					
<b>STEM 3303</b>	<b>Project-Based Instruction</b>	<b>3</b>	<b>STEM 4409</b>	<b>Supervised Teaching</b>	<b>9</b>
<b>BIOL Elective</b>	<b>Biology course level 4000</b>	<b>3</b>			
<b>BIOL Elective</b>	<b>Biology course level 4000</b>	<b>3</b>			
<b>BIOL Elective</b>	<b>Biology course level 4000</b>	<b>3</b>			
<b>Free Elective</b>	<b>If needed</b>	<b>1</b>			
	<b>TOTAL</b>	<b>13</b>		<b>TOTAL</b>	<b>9</b>
<b>Total hours for degree: 120</b>					

**Note:** A total of 3 lab courses numbered 2000 or higher are required including one required lab from the Biology Core courses.