



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.

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Major Requirements

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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.

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

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