



UAteach ADVISING GUIDE

Bachelor of Science (BS) in Chemistry /Grades 7-12 Chemistry 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

UAteach ADVISING GUIDE and CHECKLIST
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Major Requirements

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MATHEMATICS CORE (3 courses—12 hours)

- MATH 2554 Calculus I
- MATH 2564 Calculus II
- MATH 2574 Calculus III

PHYSICS CORE (2 courses—8 hours)

- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

Note: The mathematics & physics prerequisites for these courses are substantial. These courses & their prerequisites should be scheduled early in the student's program.

CHEMISTRY CORE (11 courses—45 hours)

- CHEM 1103/1101L University Chemistry I/Lab
- CHEM 1123/1121L University Chemistry II/Lab
- OR**
- CHEM 1213/1211L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II/Lab

- CHEM 2263/2261L Analytical Chemistry/Lab

- CHEM 3504 Physical Chemistry I
- CHEM 3514/3512L Physical Chemistry II/Lab

- CHEM 3703/3702L Organic Chemistry I/Lab
- CHEM 3713/3712L Organic Chemistry II/Lab

- CHEM 4213/4211L Instrumental Analysis
- CHEM 4123 Advanced Inorganic Chemistry I
- CHEM 4723 Experimental Methods in Organic and Inorganic

- *CHEM 3273 Research Methods

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
- *CHEM 3273 Research Methods
- STEM 3303 Project Based Instruction
- STEM 4333 Perspectives on Math and Science
- STEM 4409 Teaching Internship

The Fulbright College writing requirement is satisfied by the formal research/analytical reports required in Physical Chemistry Laboratory—CHEM 3451L or CHEM 3512L—or by completing an honors thesis.

This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 Intro to Biochemistry or CHEM 4813H/CHEM4843H Honors Biochemistry I/II is included.

*This course meet the 3000 level CHEM elective requirement **and** the UAteach course requirement

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 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/lab	4	CHEM 1123/1L	University Chemistry II/Lab	4
MATH 2554	Calculus I	4	MATH 2564	Calculus II	4
ENGL 1013	Composition I	3	ENGL 1023	Composition II	3
FA/PHIL/HIST/SS	Required Core Elective	3	FA/PHIL/HIST/SS	Required Core Elective	3
UNIV 1001	University Perspectives	1			
	TOTAL	16		TOTAL	15
<i>Sophomore Year</i> (total of 31 credit hours)					
STEM 2103	Knowing and Learning	3	STEM 2203	Classroom Interactions	3
PHYS 2054	University Physics I	4	PHYS 2074	University Physics II	4
MATH 2574	Calculus III	4	CHEM 3713/2L	Organic Chemistry II/Lab	5
CHEM 3703/2L	Organic Chemistry I/Lab	5	CHEM 2263/1L	Analytical Chemistry/Lab	4
	TOTAL	16		TOTAL	16
<i>Junior Year</i> (total of 33-34 credit hours)					
CHEM 3504	Physical Chemistry I	4	CHEM 3273	Research Methods	3
FA/PHIL/HIST/SS	Required Core Elective	3	STEM 4333	Perspectives on Math and Science	3
FA/PHIL/HIST/SS	Required Core Elective	3	CHEM 3514/2L	Physical Chemistry II/Lab	6
Free Elective	Elective	4	CHEM 4213/L	Instrumental Analysis/Lab	4
	TOTAL	14		TOTAL	16
<i>Senior Year</i> (total of 26 credit hours)					
STEM 3303	Project-Based Instruction	3	STEM 4409	Teaching Internship	9
FA/PHIL/HIST/SS	Required Core Elective	3	Free Elective	Elective (if needed)	3
CHEM 4123	Advanced Inorganic Chemistry I	3			
CHEM 4723	Exp Methods in Organic and Inorgan	3			
FA/PHIL/HIST/SS	Required Core Elective	3			
	TOTAL	15		TOTAL	12
Total hours for degree: 120					

This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 Intro to Biochemistry or CHEM 4813H/CHEM4843H Honors Biochemistry I/II is included.

Key:

University Core Classes

UAteach Courses