



## 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 20<sup>th</sup> 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**  
**Bachelor of Science (BS) in Chemistry/Grades 7-12 Chemistry Licensure**  
**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

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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			
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>
<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	FA/PHIL/HIST/SS	Required Core Elective	3
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>
<i>Junior Year</i> (total of 33-34 credit hours)					
CHEM 3504	Physical Chemistry I	4	CHEM 3273	Research Methods	3
CHEM 2263/1L	Analytical Chemistry/Lab	4	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
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>16</b>
<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			
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>12</b>
<b>Total hours for degree: 120</b>					

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**