



## UAteach ADVISING GUIDE

Bachelor of Arts (BA) in Physics/ Grades 7-12 Physics 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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**\*Computer Programming (2 courses-8 hours)**

- CSCE 2004 Programming Foundations I
- CSEC 2014 Programming Foundation II

*\*Or 8 hours of natural sciences*

**MATHEMATICS CORE (2 courses • 6-8 hours)**

Select **one** course from the following three:

- MATH 1203 College Algebra
- MATH 1213 Plane Trigonometry
- MATH 1284 Precalculus Mathematics

Select **one** course from the following two:

- MATH 2043 Survey of Calculus
- MATH 2554 Calculus I (**recommended**)

**MATH or STAT electives numbered 2000 or higher (2 courses • 6 hours minimum)**

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

**UAteach Course Requirements (26 Hrs.)**

- ARSC 1201 Step 1: Inquiry Approaches to Teaching
- ARSC 1221 Step 2: Inquiry Based Lesson Design
- STEM 2103 Knowing and Learning in Science and Mathematics Instruction
- STEM 2203 Classroom Interactions in Science and Mathematics Instruction
- ARSC 2303 Perspectives on Mathematics and Science
- \*\*PHYS 3273 Research Methods
- STEM 3303 Project Based Instruction in Science and Mathematics Classrooms
- STEM 4409 Supervised Clinical Teaching in Science and Mathematics Instruction

**PHYSICS CORE (4 courses • 13-15 hours)**

- PHYS 2013/2011L College Physics I
- PHYS 2033/2031L College Physics II
- PHYS 3603/360VL Intro to Modern Physics
- \*PHYS 4991 Physics Senior Seminar \*

**PHYS or ASTR electives numbered 3000 or higher (11 hours minimum)**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \*\*PHYS 3273 Research Methods

**Nine hours of courses numbered 3000 or higher must be taken from a single special emphasis area chosen with the departmental advisor's approval. (3 courses • 9 hours).**

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

**\*Courses recommended for a Minor in Computer Sci.**

- CSCE 2014 Programming Foundations
- CSCE2004 Programming Foundations II
- CSCE 3193 Programming Paradigms

**Three additional CSCE courses 2000 level or higher**

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

\*8 hours of Natural Sciences may be taken in lieu of the CSCE courses, however, only 4 additional CSCE courses are needed for minor in Computer Science. Three selected CSCE courses are recommended to prepare students to take the Computer Science Praxis

\*\*PHYS 3273 may be used to satisfy the Physics Writing Requirement and 3 hours of PHYS electives numbered 3000 or higher

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## Sample Course Sequence

Please see your Fulbright adviser for an official degree plan.

(Note: This sample degree plan includes a Computer Science Minor)

<u>Fall Semesters</u>		<u>Hours</u>	<u>Spring Semesters</u>		<u>Hours</u>
<i>Freshman Year</i> (total of 30 credit hours)					
ARSC 1201	Step I Inquiry Approaches to Teaching	1	ARSC 1221	Step II Inquiry Based Lesson Design	1
PHYS 2013/1L	College Physics I	4	PHYS 2033/1L	College Physics II	4
MATH 1284	PreCalculus	4	MATH 2554	Calculus I (recommended)	3
CSCE 2004	Programming Foundations I	4	CSCE 2014	Programming Foundations II	4
ENGL 1013	Composition I	3	ENGL 1023	Composition II	3
			UNIV 1001	Univ. Perspectives	1
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>16</b>
<i>Sophomore Year</i> (total of 30 credit hours)					
STEM 2103	Knowing and Learning	3	STEM 2203	Classroom Interactions	3
PHYS/ASTR	Elective 3000 level or higher	3	PHYS 3603/VL	Intro to Modern Physics	3
MATH/ STAT	Elective 2000+	4	MATH /STAT	Elective 2000+	3
FA/PHIL/HIST/SS	Required Core Electives	3	CSCE	CSCE 2000+ or elec	3
CSCE	CSCE 2000+ or elec	3	FA/PHIL/HIST/SS	Required Core Electives	3
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>
<i>Junior Year</i> (total of 31 to 32 credit hours)					
CSCE	CSCE 2000+ or elec	3	STEM 4333	Perspectives on Math and Science	3
PHYS/ASTR	Elective 3000 level or higher	3/4	PHYS/ASTR	Elective 3000 level or higher	3/4
FA/PHIL/HIST/SS	Required Core Electives	3	PHYS 3273	Research Methods	3
FA/PHIL/HIST/SS	Required Core Electives	3	FA/PHIL/HIST/SS	Required Core Electives	3
Free Elective	3000+	3	Free Elective	3000+	3
	<b>Total</b>	<b>15/16</b>		<b>Total</b>	<b>15/16</b>
<i>Senior Year</i> (total of 28 to 29 credit hours)					
CSCE 3193	Programming Paradigms (or Elec)	3	STEM 4409	Supervised Teaching	9
STEM 3303	Project-Based Instruction	3	PHYS 4991	Senior Seminar	1
FA/PHIL/HIST/SS	Required Core Electives	3			
Free Elective	3000+ as needed (for 24 hr.)	3-4			
Free electives	As needed for 120 hr.	3-4			
	<b>TOTAL</b>	<b>15-17</b>		<b>TOTAL</b>	<b>10</b>
<b>Total hours for degree: 120</b>					