Fulbright College Advising Center 518 MAIN 479.575.3307 fulbrightadvising.uark.edu



Catalog year: 2015
Please visit catalog.uark.edu for an
extensive list of graduation and
prerequisite requirements.

UAteach ADVISING GUIDE

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

University Core Requirements

Please see your Fulbright adviser for an official degree plan.

EN	GLISH COMPOSITION (2 courses • 6 hours		UNIV 1001: University Perspectives
	ENGL 1013 Composition I	Ш	(Freshmen must complete during first year)
	ENGL 1023 Composition II		
		SO	CIAL SCIENCES (3 courses from at least 2 fields • 9
U.S.	. HISTORY & GOVERNMENT	hou	rs)
(1 c	ourse-3 hours)		AGEC 1103 Principles of Agricultural Microeconomics
П	HIST 2003 History of the American People		AGEC 2103 Principles of Agricultural Macroeconomics
Ш	to 1877		ANTH 1023 Intro to Cultural Anthropology
	HIST 2013 History of the American People		COMM 1023 Communication in a Diverse World
Ш	1877 to Present		ECON 2013 Principles of Macroeconomics
	PLSC 2003 American National Government		ECON 2023 Principles of Microeconomics
		\Box	ECON 2143 Basic Economics: Theory and Practice
FINE ARTS (1 course • 3 hours)		同	GEOS 1123 Human Geography
	ARCH 1003 Architecture Lecture	$\overline{\Box}$	GEOS 2003 World Regional Geography
	ARHS 1003 Art Lecture	同	HESC 1403 Life Span Development
	COMM 1003 Film Lecture	百	HESC 2413 Family Relations
	DANC 1003 Movement and Dance	百	HIST 1113 Institutions and Ideas of World Civilizations I
	LARC 1003 The American Landscape	Ħ	HIST 1123 Institutions and Ideas of World Civilizations II
	MLIT 1003 Music Lecture	Ħ	HIST 2003 History of the American People to 1877
	MLIT 1013 Music Lecture for Music Majors	\equiv	HIST 2013 History of the American People 1877 to
	THTR 1003 Theatre Appreciation		Present
	THTR 1013 Musical Theatre Appreciation		HUMN 1114H* Honors Roots of Culture to 500 C.E.
		\Box	HUMN 2114H* Honors Birth of Modern Culture, 1600-
HUI	MANITIES (1 course • 3 hours)	Ш	1900
	AAST 2023 The African American Experience		PLSC 2003 American National Government
	ARCH 1013 Diversity and Design		PLSC 2013 Intro to Comparative Politics
	CLST 1003 Intro to Classical Studies: Greece		PLSC 2203 State and Local Government
	CLST 1013 Intro to Classical Studies: Rome		PSYC 2003 General Psychology
	COMM 1233 Media, Community, and Citizenship		RESM 2853 Leisure and Society
	ENGL 1213 Intro to Literature		RSOC 2603 Rural Sociology
	GNST 2003 Intro to Gender Studies		SOCI 2013 General Sociology
	HUMN 1124H* Honors Eq. of Cultures, 500-1600		SOCI 2033 Social Problems
	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		

UAteach ADVISING GUIDE and CHECKLIST

Bachelor of Science (BS) in Physics /Grades 7-12 Physics Licensure Major Requirements

Please see your Fulbright adviser for an official degree plan.

		Phys	Physics Core (7 courses – 23 hours)		
And	CHEM 1103/11011 University Chemistry I CHEM 1123/11211 University Chemistry II n approved 8 hours of laboratory-based courses in CSCE: CSCE 2004 Programming Foundations I CSCE 2014 Programming Foundations II		PHYS 2054 University Physics I PHYS 2074 University Physics II PHYS 2093 University Physics III PHYS 3414 Electromagnetic Theory PHYS 3613 Modern Physics PHYS 4073 Intro to Quantum Mechanics *PHYS 4991 Physics Senior Seminar		
Mathematics (5 courses – 19 hours)		Physics Electives-Students must complete one			
	MATH 2554 Calculus I	conc	centration below; discuss with your advisor.		
	MATH 2564 Calculus II MATH 2574 Calculus III MATH 2584 Differential Equations and Laplace Transform *MATH 3423 Advanced Applied Mathematics : CSCE 3513, CSCE 4423 GEOS 4223, or MEEG 2703 can be		Astronomy (16 hrs. Minimum) Biophysics (16 hrs. Minimum) Computational (16 hrs. Minimum Electronics (16 hrs. Minimum) Geoscience Concentration (16 hr. Minimum)		
	substituted for MATH 3423 with a departmental advisor's approval.		Optics (16 hrs. Minimum)		
UAteach Requirements (26 hours)			Professional (16 hrs. Minimum)		
	ADSC 1201 Stan 1. Inquiry Approaches to Teaching		Other Possible Options rses required to add a math minor:		
	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	Cou	Other Possible Options rses required to add a math minor:		
	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		-		
	ARSC 1221 Step 2: Inquiry Based Lesson Design STEM 2103 Knowing and Learning in Science and Mathematics Instruction	Cour	rses required to add a math minor:		
	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	OR	rses required to add a math minor: MATH 2603 Discrete Math		
	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 *PHYS 3273 Research Methods STEM 4333 Perspectives in Science STEM 3303 Project Based Instruction in Science and Mathematics Classrooms	OR	rses required to add a math minor: MATH 2603 Discrete Math MATH 2803 Intro. to Math. Proof		
	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 *PHYS 3273 Research Methods STEM 4333 Perspectives in Science STEM 3303 Project Based Instruction in Science and Mathematics Classrooms STEM 4409 Supervised Clinical Teaching in Science and	OR	rses required to add a math minor: MATH 2603 Discrete Math MATH 2803 Intro. to Math. Proof rses recommended for a CSCE Minor		
	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 *PHYS 3273 Research Methods STEM 4333 Perspectives in Science STEM 3303 Project Based Instruction in Science and Mathematics Classrooms	OR	rses required to add a math minor: MATH 2603 Discrete Math MATH 2803 Intro. to Math. Proof rses recommended for a CSCE Minor CSCE 2004 Programming Foundations I		
*Not	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 *PHYS 3273 Research Methods STEM 4333 Perspectives in Science STEM 3303 Project Based Instruction in Science and Mathematics Classrooms STEM 4409 Supervised Clinical Teaching in Science and	OR Coun	rses required to add a math minor: MATH 2603 Discrete Math MATH 2803 Intro. to Math. Proof rses recommended for a CSCE Minor CSCE 2004 Programming Foundations I CSCE 2014 Programming Foundations II CSCE 3193 Programming Paradigms ree additional CSCE courses 2000 level or		

UAteach Advising Guide Bachelor of Science in Physics /Grades 7-12 Physics Licensure

Sample Course Sequence
Please see your Fulbright adviser for an official degree plan.

	Fall Semesters	Hours	<u>s</u>	pring Semesters	Hours
	<u>Freshman Ye</u>	ar (total	of 30 credit hours)	,	
ARSC 1201	Step I Inquiry Approaches to Teaching	1	ARSC 1221	Step II Inquiry Based Lesson Design	1
PHYS 2054/L	University Physics I	4	PHYS 2074/L	University Physics II	4
MATH 2554	Calculus I	4	MATH 2564	Calculus II	4
FA/PHIL/HIST/SS	Required Core Electives	3	FA/PHIL/HIST/SS	Required Core Electives	3
ENGL 1013	Composition I	3	ENGL 1023	Composition II	3
UNIV 1001	University Perspectives	1			
	TOTAL	16		TOTAL	15
	<u>Sophomore Ye</u>	ar (total	of 30 credit hours)		
STEM 2103	Knowing and Learning	3	STEM 2203	Classroom Interactions	3
PHYS 2094/L	University Physics III	4	PHYS 3613	Modern Physics	3
MATH 2574	Calculus III	4	MATH 2584	2584 Diff. Equations	4
CSCE 2004/CHEM1104	Programming Foundations I (Or U. Chem. I)	4	CSCE 2014/CHEM1124	Programming Foundations II (Or U. Chem. II)	4
			Free Elective	Free electives as needed	3
	TOTAL	15		TOTAL	17
	Junior Year (t	otal of 3	0 to 32 credit hours)		
MATH 3423	Advanced Applied Mathematics	3	STEM 4333	Perspectives on Math and Science	3
PHYS/ASTR	Elective 3000 level or higher	4	PHYS 3414	Electromagnetic Theory	4
PHYS/ASTR	Elective 3000 level or higher	3	PHYS 3273	Research Methods	3
FA/PHIL/HIST/SS	Required Core Electives	3	FA/PHIL/HIST/SS	Required Core Electives	3
FA/PHIL/HIST/SS	Required Core Electives	3	PHYS/ASTR	Elective 3000 level or higher	3
	Total	16		Total	16
	<u>Senior Year</u> (t	otal of 2	8 to 30 credit hours)		
PHYS 4073	Quantum Mechanics	3	STEM 4409	Supervised Teaching	9
FA/PHIL/HIST/SS	Required Core Electives	3	PHYS 4991	Senior Seminar (if needed)	1
STEM 3303	Project-Based Instruction	3			
PHYS/ASTR	Elective 3000 level or higher	4			
Free electives	As needed for 120 hrs.	3			
	TOTAL	16		TOTAL	10
		ours for	degree: 120	<u> </u>	