Secondary Education – Physics Teacher Emphasis Associate in Science

Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.



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Program Objective

The objective of the Secondary Education Associate in Science - Physics Teacher Certification Emphasis is to prepare students for transfer to a bachelor's degree granting institution to major in physics with a concentration in teacher certification.

Requirements for Graduation

- 1. Sixty-four designated semester credit hours.
- 2. Grade of "C" or better required in all Major Field Requirement courses.
- 3. Grade Point Average of 2.0 or better.
- 4. Fifteen semester credit hours in attendance at SSC.
- 5. Completion of Graduate Exit Survey.

Transfer Note: A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university with an associate in arts or associate in science degree will satisfy all freshman and sophomore general education requirements at the four-year university.

Admission to ECU Teacher Education:

Students who are considering teacher education as a career must have a Graduate Retention GPA of 2.5 to enroll in EDUC 2012 Foundations of Education and EDUC 2211 Field Experience I. Students must also complete an application for admission to the Teacher Education Program. The application process will be completed while enrolled in EDUC 2012. For more information on the ECU Teacher Education Program contact Phyllis Isaacs, Chair of the Education Department at (580) 559-5240.

Teacher Certification Examinations:

The Oklahoma General Education Test (OGET) is the first of a series of certification exams required by the teacher certification process in the state of Oklahoma. The OGET is typically taken during a teacher education candidate's sophomore year. For more information on OGET and other required certification examinations visit www.ceoe.nesinc.com.



General Educat	tion Regu	irements	34
GOV	1113	American National Government	
HIST	1483	American History to 1877 or	
HIST	1493	American History since 1877	3
ENG	1113	Composition I	
ENG	1213	Composition II	
SPCH	1143	Speech	
HUM		Any class designated as Humanities	
MATH	1513	Pre-Calculus for Eng-Phys-CS	
SCIENO	CE	met by program	
CAP	1103	Introduction to Microsoft Office	3
HPER	1012	Wellness and Human Development.	
STSC	1002	Learning Strategies	
PSY	1113	General Psychology	3
		S	
Select from the BIOL	e jouowing a 1114	nd must include at least one life science at	ia one pnysicai science:
BIOL		General Biology <u>or</u>	(
	1214	Principles of Biology	(recommended by ECU)
CHEM		General Chemistry I	
CHEM		General Chemistry II	
MATH		Plane Trigonometry	(LIL ECID
MATH		Calculus and Analytic Geometry I	(recommended by ECU)
MATH		Calculus and Analytic Geometry II	(recommended by ECU)
PHYS		Earth Science	
	1314	Astronomy	(LIL ECID
	2114	General Physics I	(recommended by ECU)
PHYS		Calculus Based Physics I	(recommended by ECU)
PHYS	2224	General Physics II	(recommended by ECU)
PHYS	2231	Calculus Based Physics II	(recommended by ECU)
Major Field Ele	ctives and	1 1	3
PSY	2023	Developmental Psychology	
ECU ADA ORLAND			



Major Field Requirements at East Central University 5				
EDUC 2012	Foundations of Education			

Field Experience EDUC 2211 EDUC 2402 Survey of Exceptional Children

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE

Suggested Sequence of Major Field Courses

<u>First Semester</u> MATH 1513	Second Semester MATH 2215	Third Semester MATH 2424	Fourth Semester MATH 2434
MATH 1613	BIOL 1214	PHYS 2114	PHYS 2224
	PSY 2023	PHYS 2211	PHYS 2231
		EDUC 2402	EDUC 2012/2211

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2021-22 Degree Requirements Checklist

	GENERAL EDUCATION REQUIREMENTS	23 hrs.	MAJOR FIELD REQUIREMENTS
6 hrs. 9 hrs. 6 hrs.	Social Sciences GOV 1113 American National Government HIST 1483 American History Survey to 1877 or HIST 1493 American History Survey since 1877 Language Arts BNG 1113 Composition I BNG 1213 Composition II SPCH 1143 Speech Humanities Select two of the following: HUM BNUM BNUM BNUM BNUM BNUM BNUM BNUM BN	23 hrs.	Select from the following: BIOL 1114 General Biology or BIOL 1214 Principles of Biology (recommended by ECU) CHEM 1315 General Chemistry I CHEM 1515 General Chemistry II MATH 1613 Plane Trigonometry MATH 2215 Calculus and Analytical Geometry I (recommended by ECU) MATH 2424 Calculus and Analytical Geometry II (recommended by ECU) PHYS 1214 Earth Science PHYS 1314 Astronomy PHYS 2114 General Physics I (recommended by ECU) PHYS 2211 Calculus Based Physics I (recommended by ECU) PHYS 2224 General Physics II (recommended by ECU) PHYS 2231 Calculus Based Physics II (recommended by ECU)
3 hrs.	and Humanities ENG 2413 Introduction to Literature ENG 2433 World Literature I ENG 2543 British Literature I ENG 2653 British Literature II ENG 2753 American Literature II ENG 2883 American Literature II HIST 2223 Early Western Civilization to 1660 HIST 2233 Modern Western Civilization since 1660 JOUR 1123 Introduction to Mass Communication MUS 1213 Music Appreciation II MUS 1223 Music Appreciation II PHIL 1113 Introduction to Philosophy SOC 2433 Global Studies in Culture and Diversity SPAN 2103 Global Studies in Spanish SPCH 1523 Introduction to Theatre Mathematics Select one of the following: MATH 1513 Pre-Calculus for Eng-Phys-CS MATH 1613 Plane Trigonometry MATH 2215 Calculus and Analytic Geometry I	3 hrs. 5 hrs. 31 hrs. 65 hrs.	MAJOR FIELD ELECTIVES AND SUPPORT PSY 2023 Developmental Psychology MAJOR FIELD REQUIREMENTS AT EAST CENTRAL UNIVERSITY EDUC 2012 Foundations of Education EDUC 2211 Field Experience EDUC 2402 Survey of Exceptional Children TOTAL REQUIRED MAJOR FIELD HOURS MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE
	Life Science ✓ met by program Physical Science ✓ met by program		A statewide transfer agreement guarantees students transferring to an Oklahoma public four-year university with an associate in arts or
3 hrs.	Computer Applications □ CAP 1103 Introduction to Microsoft Office		associate in science degree will satisfy all freshman and sophomore general education requirements at
2 hrs.	Health, Physical Education and Recreation □ HPER 1012 Wellness and Human Development		the four-year university.
2 hrs.	Student Success Required during first semester □ STSC 1002 Learning Strategies		
3 hrs.	Psychology, Soc. Science, World Language, or Fine Arts Elective □ PSY 1113 General Psychology		revised 11/2018
34 hrs.	TOTAL REQUIRED GENERAL EDUCATION HOURS		



Semester by Semester Suggested Degree Plan* Secondary Education – Physics Teacher Emphasis Associate in Science

COURSE NUMBER- COURSE DESCRIPTION		Hours
FRESHMAN YEAR, 1ST SEMESTER, FALL		
☐ STSC 1002 LEARNING STRATEGIES		2
☐ HPER 1012 WELLNESS AND HUMAN DEVELOPMENT		2
☐ ENG 1113 COMPOSITION I		3
☐ MATH 1513 PRE-CALC FOR ENG-PHYS-CS		3
☐ MATH 1613 TRIGONOMETRY		3
□ PSY 1113 GENERAL PSYCHOLOGY		3
	TOTAL:	16
FRESHMAN YEAR, 2ND SEMESTER, SPRING		
☐ ENG 1213 COMPOSITION II		3
☐ CAP 1103 INTRODUCTION TO MICROSOFT OFFICE		3
☐ MATH 2215 CALCULUS AND ANALYTICAL GEOMETRY I		5
☐ BIOL 1214 PRINCIPLES OF BIOLOGY		4
☐ PSY 2023 DEVELOPMENTAL PSYCHOLOGY		3
	TOTAL:	3
		18
SOPHOMORE YEAR, 1ST SEMESTER, FALL		2
☐ HUM		3
GOV 1113 AMERICAN NATIONAL GOVERNMENT		3 4
PHYS 2114 GENERAL PHYSICS I		1
☐ PHYS 2211 CALCULUS BASED PHYSICS I		3
☐ HIST 1483/1493 AMERICAN HISTORY SURVEY TO 1877 OR SINCE 1877		2
☐ ECU Major Field Requirement –EDUC 2402 Survey of Exceptional Children	_	16
	TOTAL:	10
SOPHOMORE YEAR, 1ST SEMESTER, SPRING		2
□ HUM		3
□ PHYS 2224 GENERAL PHYSICS II		4
□ PHYS 2231 CALCULUS BASED PHYSICS I		1
☐ ECU Major Field Requirement —EDUC 2012 Foundations of Excellence		2
☐ ECU MAJOR FIELD REQUIREMENT —EDUC 2111 FIELD EXPERIENCE		3
□ SPCH 1143 SPEECH		14
	TOTAL:	
TOTAL I	HOURS:	64

^{*}THIS IS A GUIDE TO HELP STUDENTS WITH PLANNING. A STUDY OF THE COURSE SCHEDULE AND A VISIT WITH YOUR ACADEMIC ADVISOR IS CRUCIAL FOR SUCCESS IN COMPLETING YOUR DEGREE.