

Secondary Education – Physics Teacher Emphasis

Associate in Science

Degree Program Mentor

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



Melissa Bryant
 Assistant Professor
 405-382-9742
 m.bryant@sscok.edu
 Division Office: 405-382-9252

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 Education Requirements 34

GOV 1113	American National Government	3
HIST 1483	American History to 1877 or	
HIST 1493	American History since 1877.....	3
ENG 1113	Composition I	3
ENG 1213	Composition II	3
SPCH 1143	Speech.....	3
HUM	Any class designated as Humanities	6
MATH 1513	Pre-Calculus for Eng-Phys-CS.....	3
SCIENCE	<i>met by program</i>	
CAP 1103	Introduction to Microsoft Office	3
HPER 1012	Wellness and Human Development	2
STSC 1002	Learning Strategies	2
PSY 1113	General Psychology	3

Major Field Requirements 23

Select from the following and must include at least one life science and one physical science:

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 Analytic Geometry I	(recommended by ECU)
MATH 2424	Calculus and Analytic 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)

Major Field Electives and Support..... 3

PSY 2023	Developmental Psychology
----------	--------------------------



Major Field Requirements at East Central University 5

EDUC 2012	Foundations of Education
EDUC 2211	Field Experience
EDUC 2402	Survey of Exceptional Children

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE 65

Suggested Sequence of Major Field Courses


First Semester	Second Semester	Third Semester	Fourth Semester
MATH 1513	MATH 2215 (SP only)	MATH 2424 (FA only)	EDUC 2012/2011 (SP only)
MATH 1613	BIOL 1214	PHYS 2114 (FA only)	EDUC 2631 (SP only)
	PSY 2023	PHYS 2211 (FA only)	EDUC 2402 (SP only)
			MATH 2434 (SP only)
			PHYS 2224 (SP only)
			PHYS 2231 (SP only)



Secondary Education - Physics Teacher Emphasis

Associate in Science

2017-18 Degree Requirements Checklist

	GENERAL EDUCATION REQUIREMENTS	23 hrs.	MAJOR FIELD REQUIREMENTS
6 hrs.	Social Sciences <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 or <input type="checkbox"/> HIST 1493 American History Survey since 1877		<i>Select from the following:</i> <input type="checkbox"/> BIOL 1114 General Biology or <input type="checkbox"/> BIOL 1214 Principles of Biology (recommended by ECU) <input type="checkbox"/> CHEM 1315 General Chemistry I <input type="checkbox"/> CHEM 1515 General Chemistry II <input type="checkbox"/> MATH 1613 Plane Trigonometry <input type="checkbox"/> MATH 2215 Calculus and Analytical Geometry I (recommended by ECU) <input type="checkbox"/> MATH 2424 Calculus and Analytical Geometry II (recommended by ECU)
9 hrs.	Language Arts <input type="checkbox"/> ENG 1113 Composition I <input type="checkbox"/> ENG 1213 Composition II <input type="checkbox"/> SPCH 1143 Speech		<input type="checkbox"/> MATH 2215 Calculus and Analytical Geometry I (recommended by ECU) <input type="checkbox"/> MATH 2424 Calculus and Analytical Geometry II (recommended by ECU) <input type="checkbox"/> PHYS 1214 Earth Science <input type="checkbox"/> PHYS 1314 Astronomy <input type="checkbox"/> PHYS 2114 General Physics I (recommended by ECU) <input type="checkbox"/> PHYS 2211 Calculus Based Physics I (recommended by ECU) <input type="checkbox"/> PHYS 2224 General Physics II (recommended by ECU) <input type="checkbox"/> PHYS 2231 Calculus Based Physics II (recommended by ECU)
6 hrs.	Humanities <i>Select two of the following:</i> <input type="checkbox"/> HUM _____ <input type="checkbox"/> HUM _____ any course with HUM prefix (list above) or <input type="checkbox"/> ART 1153 Art History I <input type="checkbox"/> ART 1163 Art History II <input type="checkbox"/> ART 1203 Art Appreciation <input type="checkbox"/> ART 2323 Global Studies in Art <input type="checkbox"/> ENG 2043 Global Studies in Language Arts and Humanities <input type="checkbox"/> ENG 2413 Introduction to Literature <input type="checkbox"/> ENG 2433 World Literature I <input type="checkbox"/> ENG 2543 British Literature I <input type="checkbox"/> ENG 2653 British Literature II <input type="checkbox"/> ENG 2753 American Literature I <input type="checkbox"/> ENG 2883 American Literature II <input type="checkbox"/> HIST 2223 Early Western Civilization to 1660 <input type="checkbox"/> HIST 2233 Modern Western Civilization since 1660 <input type="checkbox"/> JOUR 1123 Introduction to Mass Communication <input type="checkbox"/> MUS 1213 Music Appreciation I <input type="checkbox"/> MUS 1223 Music Appreciation II <input type="checkbox"/> SPCH 1523 Introduction to Theatre <input type="checkbox"/> PHIL 1113 Introduction to Philosophy <input type="checkbox"/> SPAN 2103 Global Studies in Spanish	3 hrs.	MAJOR FIELD ELECTIVES AND SUPPORT <input type="checkbox"/> PSY 2023 Developmental Psychology
3 hrs.	Mathematics <i>Select one of the following:</i> <input type="checkbox"/> MATH 1513 Pre-Calculus for Eng-Phys-CS <input type="checkbox"/> MATH 1613 Plane Trigonometry <input type="checkbox"/> MATH 2215 Calculus and Analytic Geometry I	5 hrs.	MAJOR FIELD REQUIREMENTS AT EAST CENTRAL UNIVERSITY  <input type="checkbox"/> EDUC 2012 Foundations of Education <input type="checkbox"/> EDUC 2211 Field Experience <input type="checkbox"/> EDUC 2402 Survey of Exceptional Children
3 hrs.	Life Science <input checked="" type="checkbox"/> <i>met by program</i>	31 hrs.	TOTAL REQUIRED MAJOR FIELD HOURS
3 hrs.	Physical Science <input checked="" type="checkbox"/> <i>met by program</i>	65 hrs.	MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE
2 hrs.	Computer Applications <input type="checkbox"/> CAP 1103 Introduction to Microsoft Office		<div style="border: 1px solid black; padding: 10px;"> <p>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.</p> </div>
2 hrs.	Health, Physical Education and Recreation <input type="checkbox"/> HPER 1012 Wellness and Human Development		
2 hrs.	Student Success Required during first semester <input type="checkbox"/> STSC 1002 Learning Strategies		
3 hrs.	Psychology, Soc. Science, World Language, or Fine Arts Elective <input type="checkbox"/> PSY 1113 General Psychology		
34 hrs.	TOTAL REQUIRED GENERAL EDUCATION HOURS		