

PHYSICS SCIENCE EDUCATION REQUIREMENTS (BSE)

Code	Title	Units
Major Requirements ^{1, 2}		
Select one of the following:		10
PHYSCS 140 & PHYSCS 141	PRINCIPLES OF PHYSICS I and PRINCIPLES OF PHYSICS II	
PHYSCS 180 & PHYSCS 181	PHYSICS FOR SCIENTISTS AND ENGINEERS I and PHYSICS FOR SCIENTISTS AND ENGINEERS II	
Additional Coursework:		
PHYSCS 190	FRONTIERS OF ENGINEERING AND PHYSICS	1
PHYSCS 221	INTERMEDIATE LABORATORY	2
PHYSCS 324	METHODS OF THEORETICAL PHYSICS	4
PHYSCS 344	MODERN PHYSICS	4
PHYSCS 389	JUNIOR SEMINAR	1
ASTRONOMY 112	INTRODUCTION TO ASTRONOMY	5
Additional PHYSCS courses numbered 300 or 400		4
Total Units		31

¹ Departmental Exit Interview.

² An approved minor is not required for this major.

Code	Title	Units
Licensure Requirements ³		
SPECED 205	INTRODUCTION TO SPECIAL EDUCATION	3
EDFOUND 212	EDUCATIONAL PSYCHOLOGY	3
EDFOUND 243	FOUNDATIONS OF EDUCATION IN A PLURALISTIC SOCIETY	3
EDFNDPRC 210	INTRODUCTION TO EDUCATION AND TEACHING	3
ELEMMID 324	TEACHING OF SCIENCE IN THE ELEMENTARY/MIDDLE SCHOOL	3
EDFOUND 425	MEASUREMENT AND EVALUATION IN THE SECONDARY SCHOOL	3
SECNDED 429	METHODS OF TEACHING SCIENCE	3
SECNDED 466	LITERACY IN THE DISCIPLINES	3
Select one from:		3
BIOLOGY 214	ECOLOGY AND SOCIETY	
BIOLOGY 257	INTRODUCTION TO ECOLOGY	
GEOGRPY 252	GLOBAL ENVIRONMENTAL CHALLENGES	
Select one of the following student teaching groups:		14
Group A		
CIFLD 352	SCIENCE PRE-STUDENT TEACHING, MIDDLE LEVEL	
CIFLD 454	SCIENCE STUDENT TEACHING, SECONDARY LEVEL	
Group B		

CIFLD 354	SCIENCE PRE-STUDENT TEACHING, SECONDARY LEVEL	
CIFLD 452	SCIENCE STUDENT TEACHING, MIDDLE LEVEL	
Total Units		41
Code	Title	Units
General Science and Other Unique Requirements		
MATH 253	CALCULUS AND ANALYTIC GEOMETRY I	5
MATH 254	CALCULUS AND ANALYTIC GEOMETRY II	4
CHEM 102	GENERAL CHEMISTRY I	5
CHEM 104	GENERAL CHEMISTRY II	5
BIOLOGY 141	INTRODUCTORY BIOLOGY I	5
BIOLOGY 142	INTRODUCTORY BIOLOGY II	5
GEOLOGY 100 or GEOLOGY 214 or GEOGRPY 210	PRINCIPLES OF GEOLOGY EARTH'S ENVIRONMENTAL HISTORY PHYSICAL GEOGRAPHY	4-5
Total Units		33-34
Code	Title	Units
Writing Requirement		
ENGLISH 370 or PWP 371	ADVANCED COMPOSITION WRITING IN THE SCIENCES	3
Total Units		3

³ GPA requirements:

- to graduate from the College of Education and Professional Studies, students in a BSE licensure major must have at least a combined GPA of 2.75; and
- students must achieve a grade of "C" (2.00) or better in all required courses with the prefixes EDFOUND, EDFNDPRC, ELEMMID, SECNDED, or SPECED before they can enroll in CIFLD 452 or CIFLD 454. Must pass the appropriate Praxis II content knowledge test by March 1 for a following fall semester student teaching placement, or October 1 for a following spring semester student teaching placement.