PHYSICAL SCIENCE - SECONDARY EDUCATION MAJOR, BACHELOR OF SCIENCE (BS)

Secondary Education Program Prerequisites

All prerequisite courses must have been completed within the last 6 years.

A grade ≥B- in all prerequisite courses is required for admission to the Education program.

Total Credits		32
Quantitative and Symbolic Reasoning proficiency*		
PSYC 204	EDUCATIONAL PSYCHOLOGY	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4
SOST 300	PEOPLES AND GOVERNANCE OF THE PACIFIC NORTHWEST	5
ENGL 201	COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION (or approved equivalent)	5
EDUC 201	INTRODUCTION TO EDUCATION	3
or CMST 340	INTERCULTURAL COMMUNICATION	
CMST 201	PUBLIC SPEAKING	5

^{*} Quantitative and Symbolic Reasoning courses (http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext)

Grade Requirements: A cumulative GPA \geq 2.8 for all courses, \geq C+ in each required science course and required supporting course, \geq B- in each required education course.

Required Science Courses

CHEM 171 & 171L	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LABORATORY I	5
CHEM 172	GENERAL CHEMISTRY II	5
& 172L	and GENERAL CHEMISTRY LABORATORY II	
CHEM 173	GENERAL CHEMISTRY III	5
& 173L	and GENERAL CHEMISTRY LABORATORY III	
PHYS 151	GENERAL PHYSICS I	4
PHYS 152	GENERAL PHYSICS II	4
PHYS 153	GENERAL PHYSICS III	4
PHYS 161	MECHANICS LABORATORY	1
PHYS 162	HEAT AND OPTICS LABORATORY	1
PHYS 163	ELECTRONICS LABORATORY I	1
PHYS 121	DESCRIPTIVE ASTRONOMY	5
or PHYS 126	MAKING SENSE OF THE COSMOS	
GEOS 100	DISCOVERING GEOLOGY	5
& 100L	and DISCOVERING GEOLOGY LAB	
GEOS 113	THE EARTH'S CLIMATE AND WEATHER	5
GEOS 222	THE EARTH THROUGH TIME	5
& 222L	and THE EARTH THROUGH TIME LAB	
GEOS 305	INTRODUCTION TO OCEANOGRAPHY	5
or GEOS 314	WEATHER FORECASTING	
Required Supporting Courses		
MATH 161	CALCULUS I	5
MATH 162	CALCULUS II	5
MATH 163	CALCULUS III	5
Required Education Courses		
EDUC 303	FOUNDATIONS OF ASSESSMENT	3
EDUC 309	FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT	3
EDUC 341	SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT	3
EDUC 386A	FIELD EXPERIENCE AND PRACTICUM	3
EDUC 386B	FIELD EXPERIENCE AND PRACTICUM	3

Total Credits		113-125
SCED 490B	SCIENCE TEACHING CAPSTONE FIELD APPLICATION	2
SCED 490A	SCIENCE TEACHING CAPSTONE SEMINAR	3
Required Senior Capstone		
SCED 390	SCIENCE TEACHING METHODS	5
EDUC 427	GENERAL STUDENT TEACHING K-12	3-15
EDUC 426	SECONDARY STUDENT TEACHING 5-12	12
EDUC 413	CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES	3

University Competencies and Proficiencies

English (http://catalog.ewu.edu/undergraduate-degree/#newitemtext)

Quantitative and Symbolic Reasoning (http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext)

Placement and Clearance (http://catalog.ewu.edu/placement/)

Prior Learning/Sources of Credit AP, CLEP, IB (http://catalog.ewu.edu/prior-learning/)

General Education Requirements (http://cataloq.ewu.edu/undergraduate-degree/#generaleducationrequirementstext) (GER)

- · Minimum Credits-180 cumulative credit hours
 - 60 upper-division credits (300 level or above)
 - · 45 credits in residence (attendance) at Eastern, with at least 15 upper-division credits in major in residence at Eastern
- Minimum Cumulative GPA ≥2.0

Breadth Area Core Requirements (BACR)

Humanities and Arts (http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfineartsgecrtext)

Natural Sciences (http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtext)

Social Sciences (http://catalog.ewu.edu/undergraduate-degree/#socialsciencesgecrtext)

University Graduation Requirements (http://catalog.ewu.edu/undergraduate-degree/#universitygraduationrequirementstext) (UGR)

Diversity Course List (http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext)

World Language (http://catalog.ewu.edu/undergraduate-degree/#worldlanguagetext) (for Bachelor of Arts)

Global Studies Course List (http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext)

Minor or Certificate (http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtext)

Senior Capstone Course List (http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext)

Application for Graduation (use EagleNET (https://inside.ewu.edu/eaglenet/)) must be made at least two terms in advance of the term expected to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (http://catalog.ewu.edu/archives/) to determine two important catalog years.

- 1. The catalog *in effect at the student's first term* of current matriculation is used to determine **BACR** (Breadth Area Core Requirements) **and UGR** (Undergraduate Graduation Requirements).
- 2. The catalog in effect at the time the student declares a major or minor is used to determine the program requirements.

Students who earn a BS in Physical Science - Secondary Education from EWU should be able to:

- · demonstrate understanding of core concepts in Physical Science;
- show evidence of integrating the 3 dimensions of the Next Generation Science Standards;
- · apply best practices to teach Physical Science that are outlined in the Next Generation Science Standards;
- demonstrate effective strategies for teaching Physical Science to a community of diverse students;
- · describe the procedures for responding to potential safety hazards in the laboratory, classroom, and field.