SECONDARY EDUCATION: NATURAL SCIENCE BA/BS

General Education Requirements

Code	Title	Credits
Written Communication		
Select one of the following:		6.00
ENGL-101 & ENGL-102	WRITING AND RHETORIC I and WRITING AND RHETORIC II	
ENGL-109	COLLEGE WRITING AND RESEARCH	
Oral Communication		
Select one from the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
Mathematical Ways of Knowing		
Select one of the following:		3.00-5.00
MATH-143	PRECALCULUS I: ALGEBRA	
MATH-147	PRECALCULUS	
MATH-170	CALCULUS I	
Humanistic & Artistic Ways of Knowing		
Select two courses from two different categories (Literature, Arts, Language):		6.00-7.00
Literature		
ENGL-175	LITERATURE AND IDEAS	
ENGL-257	WORLD CLASSICS	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-260	NATIVE AMERICAN LITERATURE	
ENGL-261	MYTHOLOGIES	
Arts		
ART-100	INTRODUCTION TO ART	
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE	
HUM-150	INTRODUCTION TO THE ARTS	
MUS-101	SURVEY OF MUSIC	
MUS-102	MUSIC IN AMERICA	
MUS-150	WORLD MUSIC	
MUS-151	HISTORY OF MUSICAL THEATER	
MUS-152	HISTORY OF JAZZ AND POPULAR MUSIC STYLES	
THEA-101	SURVEY OF THE THEATER	
Language		
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
Scientific Ways of Knowing		
Select two of the following:		8.00
CHEM-111	PRINCIPLES OF CHEMISTRY I	
PHYS-111	GENERAL PHYSICS I	
or PHYS-211	PHYSICS FOR SCIENTISTS AND ENGINEERS I	
Social & Behavioral Ways of Knowing		
Select one course from two disciplines:		6.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	

ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ECON-201	PRINCIPLES OF MACROECONOMICS	
ECON-202	PRINCIPLES OF MICROECONOMICS	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	
HIST-112	UNITED STATES HISTORY II	
HRPT-184	DIVERSITY IN ORGANIZATIONS	
HRPT-185	HUMAN RELATIONS IN ORGANIZATIONS	
POLS-101	AMERICAN NATIONAL GOVERNMENT	
POLS-237	INTERNATIONAL POLITICS	
POLS-285	COMPARATIVE GOVERNMENT	
PSYC-101	INTRODUCTION TO GENERAL PSYCHOLOGY	
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	
SOC-101	INTRODUCTION TO SOCIOLOGY	
SOC-102	SOCIAL PROBLEMS	
SS-184	DIVERSITY IN ORGANIZATIONS	
SS-185	HUMAN RELATIONS IN ORGANIZATIONS	
Global Perspectives		
Select one of the following:		3.00-4.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ANTH-360	RACE AND ETHNICITY	
COMM-345	INTERCULTURAL COMMUNICATION	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	
HIST-112	UNITED STATES HISTORY II	
HRPT-184	DIVERSITY IN ORGANIZATIONS	
ID-300C	ETHICS AND IDENTITY	
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS	
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
POLS-285	COMPARATIVE GOVERNMENT	
SOC-101	INTRODUCTION TO SOCIOLOGY	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
SPAN-201	INTERMEDIATE SPANISH I	
SPAN-202	INTERMEDIATE SPANISH II	
Integrative Seminar: Ethics & Values		
Select one of the following:		3.00
ID 300A - 300Z (see course descriptions for options)		
ID-301A	HELLS CANYON INSTITUTE	
Total Credits		**38.00-42.00**

Program Requirements

Secondary certification candidates must meet the graduation requirements for their major and the Secondary Teacher Education Program and must have two advisors. (see below)

Code	Title	Credits
Natural Science Program		
BIOL-181	ECOLOGY, EVOLUTION, DIVERSITY OF LIFE	4.00
BIOL-182	CONCEPTS IN CELLULAR MECHANISMS	4.00
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
GEOL-101	PHYSICAL GEOLOGY	4.00
or GEOL-120	INTRODUCTION TO EARTH SYSTEMS	
GEOL-202	HISTORICAL GEOLOGY	4.00
PHYS-111	GENERAL PHYSICS I	4.00
PHYS-112	GENERAL PHYSICS II	4.00
PHYS-205	DESCRIPTIVE ASTRONOMY	4.00
MATH-144	PRECALCULUS II: TRIGONOMETRY	2.00
Select one of the following:		4.00
CS-108	INTRODUCTION TO COMPUTER SCIENCE	
CS-111	COMPUTER SCIENCE 1	
Area of Emphasis		
Select 12 credits from one emphasis below		12.00
Secondary Education Certificate		
See Secondary Education Certificate Requirements below		
Total Credits		**50.00**

[1] Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

Areas of Emphasis

Biology Emphasis

Code	Title	Credits
BIOL-213	PLANT AND ANIMAL FORM AND FUNCTION	4.00
Select 8 credits from BIOL from the 200/300/400 level		8.00
Total Credits		**12.00**

Chemistry Emphasis

Code	Title	Credits
CHEM-371	ORGANIC CHEMISTRY I	3.00
CHEM-373	ORGANIC CHEMISTRY I LAB	1.00
Select 4 credits from CHEM from the 300/400 level		4.00
Select one of the following:		4.00
CHEM-325	QUANTITATIVE ANALYSIS	
CHEM-481	BIOCHEMISTRY I	
Total Credits		**12.00**

Earth Science Emphasis

Code	Title	Credits
Select 4 credits from GEOL or GIS course numbered 200 or higher		4.00
Select 8 credits from GEOL course numbered 300 level or higher		8.00
Total Credits		**12.00**

Secondary Education Certificate Requirements

Application for admission to the Teacher Education Program is required after successful completion of the first three Phase I courses.

Code	Title	Credits
Phase I - Professional Foundations of Education		
ED-214	PRINCIPLES OF EDUCATION [1]	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-318	ASSESSMENT OF LEARNING [1]	3.00
ED-321	EDUCATIONAL PSYCHOLOGY [1]	3.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
SE-322	INCLUSION STRATEGIES K-12	3.00
Phase II - Professional Studies in Education		
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
RE-309	DISCIPLINARY LITERACY	3.00
Phase III - Instructional Methods in Education		
ED-452	INTERNSHIP SEMINAR	1.00
ED-460	PROFESSIONAL INTERNSHIP IN EDUCATION 6-12	12.00
Total Credits		**39.00**

[1] Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

No grade lower than a “C-” will be accepted in any General Education core, Content Major, or 200-level Professional Foundations course. No grade lower than a “B-” will be accepted in any 300- or 400-level courses in Secondary Education.

A minimum cumulative GPA of 3.0 is required for admission into the Secondary Teacher Education Program. Candidates must also maintain a 3.0 cumulative GPA in their content area classes.

Sequential Plan of Study

Course	Title	Credits
First Year		
Fall		
BIOL-181	ORGANISMAL BIOLOGY	4.00
CORE	MATH-143 or MATH-147	3.00-5.00
CORE	Oral Communication	3.00
ENGL-101	WRITING AND RHETORIC I	3.00
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	3.00
	Credits	**16.00-18.00**
Spring		
BIOL-182	CELLULAR BIOLOGY	4.00
CORE	Humanistic & Artistic Ways of Knowing	3.00
CORE	Social & Behavioral Ways of Knowing	3.00
ENGL-102	WRITING AND RHETORIC II	3.00
Program Requirement	Select Emphasis course	3.00
	Credits	**16.00**
Second Year		
Fall		
CORE	Humanistic & Artistic Ways of Knowing	3.00
CORE	Global Perspectives	3.00
CHEM-111	PRINCIPLES OF CHEMISTRY I	4.00
GEOL-101 or GEOL-120	PHYSICAL GEOLOGY or INTRODUCTION TO EARTH SYSTEMS	4.00
	Credits	**14.00**

Spring		
CORE	Integrative Seminar: Ethics & Values	3.00
GEOL-202	HISTORICAL GEOLOGY	4.00
CS-108 or CS-111	INTRODUCTION TO COMPUTER SCIENCE or COMPUTER SCIENCE 1	4.00
NS-150	INTRODUCTION TO NATURAL SCIENCES	3.00
	Credits	**14.00**
Third Year		
Fall		
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
PHYS-111	GENERAL PHYSICS I	4.00
PHYS-112	GENERAL PHYSICS II	4.00
PHYS-205	DESCRIPTIVE ASTRONOMY	4.00
Program Requirement	Select Emphasis course	3.00
	Credits	**19.00**
Spring		
Program Requirement	Select Emphasis course	3.00
Program Requirement	Select Emphasis course	3.00
	Credits	**6.00**
	Total Credits	**85.00-87.00**

Secondary Education Certificate Requirements

Course	Title	Credits
First Year		
Fall		
ED-214	PRINCIPLES OF EDUCATION	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-318	ASSESSMENT OF LEARNING	3.00
ED-321	EDUCATIONAL PSYCHOLOGY	3.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
	Credits	**15.00**
Spring		
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
RE-309	DISCIPLINARY LITERACY	3.00
SE-322	INCLUSION STRATEGIES K-12	3.00
	Credits	**11.00**
Second Year		
Fall		
ED-452	INTERNSHIP SEMINAR	1.00
ED-461	PROFESSIONAL INTERNSHIP IN EDUCATION K-12	12.00
	Credits	**13.00**
	Total Credits	**39.00**

Graduates with a BA/BS in Natural Science: Secondary Education go on to obtain careers in a variety of fields:

- Secondary Science Teacher (6-12)
- Adult and Continuing Education
- Training Specialist
- Business and Industry
- Research

- Lab Technician
- Instructional Coach