

ENVIRONMENTAL SCIENCE - GEOSCIENCES EMPHASIS REQUIREMENTS (BA/BS)

Code	Title	Units
Major Requirements - 57 units		
ENVSCI 100	EXPLORATION OF THE ENVIRONMENTAL SCIENCE MAJOR	1
ENVSCI 200	INTRODUCTION TO ENVIRONMENTAL SCIENCE	3
ENVSCI 300	FIELD AND RESEARCH METHODS IN ENVIRONMENTAL SCIENCE	3
ENVSCI 400	ENVIRONMENTAL SCIENCE CAPSTONE	3
CHEM 102	GENERAL CHEMISTRY I	5
GEOGRPY 120	GLOBAL CLIMATE SYSTEMS	4
GEOGRPY 210	PHYSICAL GEOGRAPHY	4
GEOGRPY 270	GIS I: MAPPING OUR WORLD	3
or HISTRY 190	NORTH AMERICAN ENVIRONMENTAL HISTORY	
GEOLOGY 301	ENVIRONMENTAL GEOLOGY	3
Select 15 units (at least 9 units from 300-400 level) approved Geosciences courses:		15
CHEM 104	GENERAL CHEMISTRY II	
ENVSCI 451	ADVANCED ENVIRONMENTAL SCIENCE IN NATIONAL PARKS	
ENVSCI 493	INTERNSHIP IN ENVIRONMENTAL SCIENCE	
GEOGRPY 300	SOIL SCIENCE	
GEOGRPY 310	GEOMORPHOLOGY (LANDFORMS)	
GEOGRPY 320	WEATHER ANALYSIS	
GEOGRPY 323	WATER RESOURCES	
GEOGRPY 330	BIOGEOGRAPHY	
GEOGRPY 352	GEOHAZARDS	
or GEOLOGY 352	GEOHAZARDS	
GEOGRPY 377	REMOTE SENSING OF THE ENVIRONMENT	
GEOGRPY 420	CLIMATE CHANGE: THE SCIENCE AND IMPACTS	
GEOGRPY 423	RIVERS AND FLOODS	
GEOGRPY 460	GIS IN WATER RESOURCES	
GEOGRPY 470	APPLIED ENVIRONMENTAL AND NATURAL RESOURCE GIS	
GEOGRPY 492	FIELD COURSE	
GEOLOGY 204	EARTH AND LIFE HISTORY	
or GEOLOGY 214	EARTH'S ENVIRONMENTAL HISTORY	
GEOLOGY 300	PRINCIPLES OF OCEANOGRAPHY	
GEOLOGY 310	ROCKS AND MINERALS	
GEOLOGY 317	PALEONTOLOGY	
GEOLOGY 318	GEOLOGIC STRUCTURES AND FIELD METHODS	
GEOLOGY 319	STRATIGRAPHY AND SEDIMENTATION	
GEOLOGY 492	FIELD STUDIES IN GEOLOGY	
PHYSICS 130	PHYSICS FOUNDATIONS	

Select a minimum of 6 units of approved Natural Sciences courses: 6

BIOLOGY 120	BIOLOGICAL FOUNDATIONS
BIOLOGY 141	INTRODUCTORY BIOLOGY I
BIOLOGY 142	INTRODUCTORY BIOLOGY II
BIOLOGY 251	INTRODUCTION TO GENETICS
BIOLOGY 257	INTRODUCTION TO ECOLOGY
BIOLOGY 258	ECOLOGICAL FIELD METHODS
BIOLOGY 303	BIostatISTICS
BIOLOGY 351	THE PLANT KINGDOM
BIOLOGY 353	PLANT TAXONOMY
BIOLOGY 354	FIELD BOTANY
BIOLOGY 357	CONSERVATION BIOLOGY
or ENVSCI 357	CONSERVATION BIOLOGY
BIOLOGY 359	AQUATIC PLANT BIOLOGY
BIOLOGY 370	AQUATIC BIOLOGY
BIOLOGY 375	INVERTEBRATE ZOOLOGY
BIOLOGY 380	VERTEBRATE ZOOLOGY
BIOLOGY 430	ANIMAL BEHAVIOR
BIOLOGY 442	ENVIRONMENTAL TOXICOLOGY
BIOLOGY 450	INTRODUCTORY ENTOMOLOGY
BIOLOGY 457	WILDLIFE ECOLOGY
BIOLOGY 491	TRAVEL STUDY
CHEM 104	GENERAL CHEMISTRY II
CHEM 251	ORGANIC CHEMISTRY - I
GEOGRPY 300	SOIL SCIENCE
GEOGRPY 330	BIOGEOGRAPHY
PHYSICS 130	PHYSICS FOUNDATIONS

Select a minimum of 6 units of approved Sustainability and Environmental Management courses: 6

ECON 471	ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS
ENGLISH 260	AMERICAN ENVIRONMENTAL LITERATURE
ENVSCI 222	INTRODUCTION TO SUSTAINABILITY
GEOGRPY 261	LANDSCAPES OF NORTH AMERICA: PEOPLE AND ENVIRONMENT
GEOGRPY 354	NATURAL HAZARD MITIGATION
GEOGRPY 444	CITIES AND SUSTAINABILITY
GEOGRPY 452	SUSTAINABLE DEVELOPMENT AND HUMAN-ENVIRONMENT GEOGRAPHY
PHILSPHY 248	ENVIRONMENTAL ETHICS
POLISCI 343	US ENVIRONMENTAL POLITICS AND POLICY
PWP 435	GRANT/PROPOSAL WRITING
SAFETY 220	PRINCIPLES OF ENVIRONMENTAL MANAGEMENT
SAFETY 353	FUNDAMENTALS OF ENVIRONMENTAL LAW
SAFETY 389	HAZARDOUS MATERIALS MANAGEMENT
SOCIOLGY 321	SOCIOLOGY OF NATURAL DISASTERS
SOCIOLGY 319	ENVIRONMENTAL SOCIOLOGY
WOMENST 481	GENDER, ETHNICITY, AND THE ENVIRONMENT

Select 1-3 units Experiential Learning (undergraduate research, Internship, travel study): 1-3

Total Units 57-59

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University Writing Requirement:

PWP 371	WRITING IN THE SCIENCES	3
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Unique Requirements:

Select 8-10 units from one of the following techniques option areas: 8-10

Area A - Geographic Information Systems:

GEOGRPY 370	GIS II: APPLICATIONS AND DATA	4
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and two of the following:

GEOGRPY 377	REMOTE SENSING OF THE ENVIRONMENT	
GEOGRPY 460	GIS IN WATER RESOURCES	
GEOGRPY 470	APPLIED ENVIRONMENTAL AND NATURAL RESOURCE GIS	
GEOGRPY 477	ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)	

Area B - Analytical Chemistry

CHEM 104	GENERAL CHEMISTRY II	5
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CHEM 352	QUANTITATIVE ANALYSIS	5
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Area C - Ecological Field and Lab Methods:

BIOLOGY 258	ECOLOGICAL FIELD METHODS	2
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and two of the following:

BIOLOGY 351	THE PLANT KINGDOM	
BIOLOGY 353	PLANT TAXONOMY	
BIOLOGY 354	FIELD BOTANY	
BIOLOGY 359	AQUATIC PLANT BIOLOGY	
BIOLOGY 370	AQUATIC BIOLOGY	
BIOLOGY 375	INVERTEBRATE ZOOLOGY	
BIOLOGY 430	ANIMAL BEHAVIOR	
BIOLOGY 450	INTRODUCTORY ENTOMOLOGY	
BIOLOGY 457	WILDLIFE ECOLOGY	

Area D - Environmental Writing and Communication:

ENGLISH 260	AMERICAN ENVIRONMENTAL LITERATURE	3
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and two of the following:

COMM 285	SOCIAL MEDIA OPTIMIZATION & THE NEW WEB	
COMM 327	CORPORATE COMMUNICATION FOUNDATIONS	
ENGLISH 386	NATURE WRITING	
JOURNLSM 227	WRITING FOR NEWS MEDIA	
PWP 332	WRITING FOR THE WEB	
PWP 366	TOPICS IN PROFESSIONAL WRITING	
PWP 435	GRANT/PROPOSAL WRITING	