

Degree: Bachelor of Science

College: Science, Technology and Business

Major: Environmental Science

Major Code: ENSC

Concentration: No Concentration

Credits Required: 120

Required Major Courses: (17 Credits)

Minor: N/A Minor Code: N/A

Graduation Requirements:

- Minimum 30 of the last 60 credits earned at PennWest.
- Minimum of 30 major credits must be completed at PennWest or a State System (PASSHE) university.
- Minimum Total of 42 Credits in Advanced Coursework.

General Education

oundat	tions: (13 Credits)
Oral	Communication (3 Credits)
Quai	ntitative Reasoning (4 Credits)
_	MATH 1410 Pre-Calculus
Tech	nological Literacy (3 Credits)
	GGIS 1210 Mapping our Environment
	ten Communication (3 Credits)
	ENGL 1200 College Composition
)iscove	ries: (29 Credits)
t least t	wo (2) disciplines must be represented within each of the
hree (3)	categories.
-	lumanities (9 Credits)
	ENGL 2230 Writing and the Natural Sciences
	rral Sciences & Technology 11 Credits)
	CHEM 1108 General Chemistry I
	GEOL 1500 Dynamic Earth
Socia	al Sciences (9 Credits)
	ar selections (5 creates)
lective	/Wellness & Personal Health: (3 Credits)
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-	encies:
Аррі	ied Methodologies
 Ethic	cal Reasoning
Ethic	ai Reasoning
Infor	mation Literacy
	mation Etteracy
Inter	cultural Fluency
	cultural Flucticy
Kevs	tone Experience
-	BIOL 4480 or BIOL 4951 or BIOL 4999
_	ntitative Applications
-	ATMS 1500 Environmental Atmospheric Sciences
	ing Intensive - Two (2) courses are required
	ENGL 2230 Writing & Natural Science
	Any BIOL, FWSC, ATMS, or GEOL Writing Intensive course

Program Requirements

 □ BIOL 1400 Introduction to Ecology and Evolution □ BIOL 1700 Introduction to Organismal Biology □ ATMS 1500 Environmental Atmospheric Sciences
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☐ ATMS 1500 Environmental Atmospheric Sciences
☐ GGIS 2100 Geographic Informational Systems
☐ STAT 2020 Elements of Statistics
Required Concentration Courses: (18 Credits) ☐ BIOL 1900 Introduction to Cellular & Molecular Biology ☐ "Or" BIOL 2202 Genetics
☐ BIOL 2248 Principles of General Ecology
 □ BIOL 2411 Environmental Science & Sustainability □ ~Or~ NSET/BIOL 1278 Discovering Environmental Science
☐ BIOL 4550 Evolution
☐ CHEM 1128 General Chemistry II☐ ~Or~ CHEM 2450 Environmental Chemistry
Major Electives: (25 Credits)
 ☐ Choose From: BIOL 2020 Introduction to Sustainability, GEOG 2410 Plan the Hum Env, GEOG 3410 Sustainable Development, or GEOG 4410 Env Plan ☐
☐ Choose From: BIOL 3335 Sustainable Agriculture, BIOL 3399 Conservation Biology, or FWSC 4435 Natural Resource Law and Policy
Choose From: GEOL 3030 Hydrology, BIOL 4473 Freshwater Ecology, BIOL 4475 Wetlands Ecology, BIOL 4484 Quan Meth in Aq Bio, PLE 4475 Wetland Ecology, GEOG 4110 Geography of Water Resources, or GEOL 4600 Watershed Evaluation and Management
Choose From: BIOL 4402 Biometry, BIOL 4484 Quan Meth in Aq Bio, BIOL 4570 Bio St Des & Data An, BIOL 4800 Veg Sampling and Analysis, FWSC 4950 Applied Bio Methods and Sci Com, BIOL 4999 Research, or PLE 4410 Field Methods in Environmental Biology
Choose From: BIO 4480 Topics in Field, BIOL 4951 Internship, or BIOL 4999 Research in Biology
☐ Choose From: Any courses 3000 or above from ATMS, BIOL, FWSC, GEOL, GEOG, GGIS, or PLE.
Free Electives: (15 Credits)

Created: 8/21/2023

Suggested Four Year Course Sequence

Year 1

Fall Semester

BIOL 1400 Introduction to Ecology and Evolution ENGL 1200 College Composition ATMS 1500 Environmental Atmospheric Sciences Any Discoveries Course Any Discoveries Course

Spring Semester

BIOL 1700 Organismal Biology
MATH 1410 Pre-Calculus
BIOL 2411 Intro to Environmental Science & Sustainability
~Or~ BIOL 1278 Discovering Environmental Science
Any Oral Communication Course
Any Elective/Wellness or Discoveries Course

Year 3

Fall Semester

GGIS 2100 Geographic Informational Systems Policy & Conservation Elective Environmental Science Elective Any Competencies/Discoveries Any Competencies/Discoveries

Spring Semester

Sustainability Elective Research Design and Analysis Elective Environmental Science Elective Any Competencies/Discoveries Course Free Elective

Year 2

Fall Semester

BIOL 1900 Introduction to Cellular & Molecular Biology ~Or~ BIOL 2202 Genetics GEOL 1500 Dynamic Earth GGIS 1210 Mapping our Environment CHEM 1108 General Chemistry I

Spring Semester

BIOL 2248 Principles of General Ecology CHEM 2450 Environmental Chemistry ~Or~ CHEM 1128 General Chemistry II ENGL 2230 Writing and the Natural Sciences STAT 2020 Elements of Statistics Any Competencies/Discoveries

Year 4

Fall Semester

Spring Semester



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