

- Minimum 30 of the last 60 credits earned at PennWest.
- Minimum of 22 major credits must be completed at PennWest or a State System (PASSHE) university.
- Minimum Total of 42 Credits in Advanced Coursework.

General Education

Foundations: (15-18 Credits)

First Year Seminar (3 Credits)

- ☐ FYS 1000 Navigating the First Year at PennWest

Quantitative Reasoning (3 Credits)

- ☐ STAT 2020 Elements of Statistics

Written Communication (3-6 Credits)

- ☐ ENGL 1100 Intro. to Comp. & ENGL 1200 College Comp.
☐ Or ENGL 1200 College Composition

Oral Communication (3 Credits)

- ☐ _____

Technological Literacy (3 Credits)

- ☐ GIS 2100 Geographic Information Systems

Discoveries: (26-29 Credits)

Arts and Humanities (6 Credits)

- ☐ _____
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Social Sciences (6 Credits)

- ☐ _____
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Natural Sciences and Technology (7 Credits)

- ☐ CHEM 1108 General Chemistry I
☐ ATMS 1100 Introduction to Weather and Climate

Flex Discoveries (If DSP into ENGL 1200) (9 Credits)

- ☐ GEOL 1500 Dynamic Earth
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Essential Skills:

Intensive Writing

- ☐ _____

Capstone

- ☐ _____

General Education Notes:

If Directed Self-Placement (DSP) includes ENGL 1100, the student will complete 6 courses in Foundations and 8 courses in Discoveries. If DSP into ENGL 1200, the student will complete 5 courses in Foundations and 9 courses in Discoveries. DSP into ENGL 1100 reduces the number of Gen Ed Flex courses to 6 vs. 9.

Program Requirements

Required Major Courses: (15-16 Credits)

- ☐ BIOL 1400 Introduction to Ecology and Evolution
☐ PHYS 1500 General Physics I Lecture
☐ PHYS 1510 General Physics I Laboratory
☐ ATMS 3250 Environmental Data Analysis
☐ Or GEOL 3250 Environmental Data Analysis
☐ ATMS 3010 Professional Development for Earth & Environ .Sciences
☐ Or GEOL 3010 Professional Development for Earth & Environ .Sciences
☐ MATH 2320 Essentials of Calculus
☐ Or MATH 2410 Calculus I

Major Electives: (30-32 Credits)

☐ Major Electives Menu 1 Pick 2 Courses from the following: (6 Credits)

- ☐ GEOL 3030 Hydrology
☐ GEOL 3100 Applied Soil Science
☐ GEOL 3200 Landscapes & Surface Processes
☐ GEOL 3700 Applied Environmental Geosciences

☐ Major Electives Menu 2 Pick 2 Courses from the following: (6-8 Credits)

- ☐ ATMS 3100 Weather Analysis and Forecasting
☐ ATMS 3300 Hydrometeorology
☐ ATMS 3400 Synoptic Climatology
☐ ATMS 4200 Air Quality

☐ Concentration Electives Menu I Pick Courses from the following: (6 Credits)

- ☐ ATMS 3000:4999
☐ GEOG 3000:4999
☐ GEOL 3000:4999
☐ GIS 3000:4999

☐ Concentration

Electives Menu 2 Pick courses from the following: (12 Credits) ATMS 3@ or 4@, BIOL 3@ or 4@, CHEM 3@ or 4@, FWSC 3@ or 4@, GEOL 3@ or 4@, GEOG 3@ or 4@, GIS 3@ or 4@, MATH 3@ or 4@, or STAT 3@ or 4@

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Free Electives: (31 Credits)

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Suggested Four Year Course Sequence

Year 1

Fall Semester

Arts and Humanities
ATMS 1100 Introduction to Weather and Climate
FYS 1000 Navigating the First Year at PennWest
GEOL 1500 Dynamic Earth
Written Communication

Spring Semester

ATMS 2000 Climatology
Free Elective
MATH 2320 Essentials of Calculus or MATH 2410 Calculus I
Oral Communication
STAT 2020 Elements of Statistics

Year 3

Fall Semester

ATMS Elective
GEOL Elective
Concentration Elective
PHYS 1500 General Physics Lecture
PHYS 1510 General Physics Lab

Spring Semester

Concentration Elective
Free Elective
Free Elective
Free Elective
Social Science

Year 2

Fall Semester

Arts and Humanities
BIOL 1400 Introduction to Ecology & Evolution
CHEM 1108 General Chemistry I
ATMS/GEOL 3010 Professional Development for Earth & Environmental Sciences
Social Sciences

Spring Semester

ATMS Elective
GGIS 2100 Geographic Information Systems
GEOL Elective
Concentration Elective
Flex Discoveries

Year 4

Fall Semester

ATMS/GEOL 3250 Environmental Data Analysis
Concentration Elective
Concentration Elective
Free Elective
Free Elective

Spring Semester

Free Elective
Free Elective
Free Elective
Free Elective