

- 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

Foundations: (15-18 Credits)

First Year Seminar (3 Credits)

- ☐ FYS 1000 Navigating the First Year at PennWest

Quantitative Reasoning (3 Credits)

- ☐ MATH 2320 Essentials of Calculus
☐ Or MATH 2410 Calculus I

Written Communication (3 Credits)

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

Oral Communication (3 Credits)

- ☐ _____

Technology Literacy

- ☐ _____

Discoveries: (27-30 Credits)

Arts and Humanities (6 Credits)

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Social Sciences (6 Credits)

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Natural Sciences and Technology (8 Credits)

- ☐ CHEM 1108 General Chemistry I
☐ CHEM 1128 General Chemistry II

Flex Discoveries (If DSP into ENGL 1200) (10 Credits)

- ☐ BIOL 1400 Introduction to Ecology & Evolution
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Essential Skills:

Intensive Writing

- ☐ Any BIOL class with GCIW attribute

Capstone: Choose one of the following:

- ☐ BIOL 4480 Field Topics In Biology
☐ BIOL 4951 Internship in Biology
☐ BIOL 4985 Biotechnology & DNA Methods
☐ BIOL 4999 Research in Biology

General Education Notes:

If Directed Self-Placement (DSP) includes ENGL 1100, the student will complete 6 courses in Foundations & 8 courses in Discoveries. If DSP into ENGL 1200, the student will complete 5 courses in Foundations & 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: (20 Credits)

- ☐ BIOL 1700 Introduction to Organismal Biology
☐ BIOL 1900 Introduction to Cellular and Molecular Biology
☐ BIOL 2202 Genetics
☐ PHYS 1500 General Physics I
☐ PHYS 1510 General Physics I Lab
☐ STAT 2020 Elements of Statistics
☐ 1 Credit in BIOL 4480, BIOL 4951, BIOL 4985, or BIOL 4999

Major Electives: (25 Credits)

Any 3000 or 4000 level BIOL and FWSC courses or 2000+ level Chemistry courses (up to 12 credits), or PHYS 1600 and PHYS 1605

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Free Electives: (30 Credits)

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Program Notes: Upper level electives are offered on a rotating basis, so they will not all be available each semester.

Suggested Four Year Course Sequence

Year 1

Fall Semester

BIOL 1400 Ecology & Evolution
CHEM 1108 General Chemistry I
Math Course (MATH 2320 or MATH 2410)
ENGL 1200 College Composition

Spring Semester

BIOL 1700 Introduction to Organismal Biology
CHEM 1128 General Chemistry II
Social Science
Tech Literacy
Any Course

Year 3

Fall Semester

Related Elective
Related Elective
Free Elective
Free Elective
Social Science

Spring Semester

Related Elective
Related Elective
Free Elective
Free Elective
Arts & Humanities

Year 2

Fall Semester

BIOL 1900 Intro to Cellular & Molecular Biology
PHYS 1500 General Physics I
PHYS 1510 General Physics I Laboratory
Oral Communication
Free Elective

Spring Semester

BIOL 2202 Genetics
Social Science
Art & Humanities
STAT 2020 Elements of Statistics
Free Elective

Year 4

Fall Semester

Keystone Experience Course
Related Elective
Free Elective
Free Elective
Arts & Humanities

Spring Semester

Related Elective
Related Elective
Free Elective
Free Elective
Free Elective