

- Minimum 30 of the last 60 credits earned at PennWest.
- Minimum of 27 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

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

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)

- ☐ _____

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 and Evolution
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Essential Sills:

Intensive Writing

- ☐ BIOL 3326 General Microbiology

Capstone

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

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

Program Requirements

Required Major Courses: (19 Credits)

- ☐ BIOL 1700 Introduction to Organismal Biology
☐ BIOL 1900 Introduction to Cellular and Molecular Biology
☐ BIOL 2202 Genetics
☐ PHYS 1500 General Physics I Lecture
☐ And PHYS 1510 General Physics I Laboratory
☐ STAT 2020 Elements of Statistics

Required Concentration Courses: (24 Credits)

- ☐ BIOL 2810 Human Anatomy and Physiology I Lecture
☐ And BIOL 2811 Anatomy and Physiology I Laboratory
☐ BIOL 3330 Cell Biology
☐ BIOL 3326 General Microbiology
☐ BIOL 3810 Human Anatomy and Physiology II Lecture
☐ And BIOL 3811 Human Anatomy and Physiology II Laboratory
☐ CHEM 2200 Organic Chemistry I Lecture
☐ And CHEM 2205 Organic Chemistry I Laboratory
☐ PHYS 1600 General Physics II Lecture
☐ And PHYS 1610 General Physics II Laboratory

Major Electives: (12 Credits)

Upper Level 3000-4000 Courses in BIOL or CHEM and One or More of the Following: BIOL 4480 Topics in Field Biology or BIOL 4951 Internship in Biology or BIOL 4985 Biotechnology and DNA Methods or BIOL 4999 Research in Biology

- ☐ _____
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Free Electives: (20 Credits)

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Suggested Four Year Course Sequence

Year 1

Fall Semester

BIOL 1400 Ecology and Evolution
CHEM 1108 General Chemistry I
FYS 1000 Navigating the First Year at PennWest
MATH 2320 Essentials of Calculus
Or MATH 2410 Calculus I
Written Communication

Spring Semester

Arts and Humanities
BIOL 1700 Introduction to Organismal Biology
CHEM 1128 General Chemistry II
Social Sciences
Technological Literacy

Year 3

Fall Semester

BIOL 2810 Anatomy and Physiology I Lecture
BIOL 2811 Anatomy and Physiology I Laboratory
BIOL 3326 Microbiology
PHYS 1500 General Physics
PHYS 1510 General Physics I Laboratory
STAT 2020 Elements of Statistics

Spring Semester

BIOL 3810 Anatomy and Physiology II Lecture
BIOL 3811 Anatomy and Physiology II Laboratory
PHYS 1600 General Physics II
PHYS 1610 General Physics II Laboratory
Major Elective
Free Elective

Year 2

Fall Semester

BIOL 1900 Intro to Cellular and Molecular Biology
CHEM 2200 Organic Chemistry I Lecture
CHEM 2205 Organic Chemistry I Laboratory
Social Sciences
Oral Communication

Spring Semester

Arts and Humanities
BIOL 2202 Genetics
Flex Discoveries
Free Elective
Free Elective

Year 4

Fall Semester

BIOL 3330 Cell Biology or Related Elective
Major Elective
Major Elective
Free Elective
Free Elective

Spring Semester

BIOL 3330 Cell Biology
Major Elective
Free Elective
Free Elective