

- Minimum 30 of the last 60 credits earned at PennWest.
- Minimum of 25 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 1220 College Algebra

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)

- ☐ _____
☐ _____

Social Sciences (6 Credits)

- ☐ _____
☐ _____

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
☐ _____
☐ _____

Essential Skills:

Intensive Writing

- ☐ BIOL 3326 General Microbiology
☐ Or BIOL 3330 Cell Biology

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 Flex courses to 6 vs. 9.

Program Requirements

Required Major Courses: (12 Credits)

- ☐ BIOL 1700 Introduction to Organismal Biology
☐ BIOL 1900 Introduction to Cellular and Molecular Biology
☐ BIOL 2202 Genetics

Related Concentration Courses: (35 Credits)

- ☐ BIOL 3326 General Microbiology
☐ BIOL 3330 Cell Biology
☐ Or BIOL 4320 Molecular Biology
☐ BIOL 2810 Human Anatomy and Physiology I Lecture
☐ And BIOL 2811 Human Anatomy and Physiology I Lab
☐ Or BIOL 2710 Anatomy and Physiology of Domestic Animals I
☐ BIOL 3810 Human Anatomy and Physiology II Lecture
☐ And BIOL 3811 Human Anatomy and Physiology II Lab
☐ Or BIOL 2720 Anatomy & Physiology of Domestic Animals II
☐ CHEM 2200 Organic Chemistry I Lecture
☐ And CHEM 2205 Organic Chemistry I Lab
☐ CHEM 2250 Organic Chemistry II Lab
☐ And CHEM 2255 Organic Chemistry II Lab
☐ CHEM 4600 Biochemistry I Lecture
☐ And CHEM 4605 Biochemistry I Lab
☐ PHYS 1510 General Physics I Lecture
☐ And PHYS 1510 General Physics I Lab
☐ STAT 2020 Elements of Statistics

Capstone: (4 Credits)

- ☐ 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

Free Electives (24 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 1220 College Algebra
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 Lab
Or BIOL 2710 Anatomy and Physiology of Domestic Animals I
BIOL 3326 Microbiology
Free Elective
PHYS 1500 General Physics I Lecture
PHYS 1510 General Physics I Lab

Spring Semester

BIOL 3810 Human Anatomy and Physiology II Lecture
BIOL 3811 Human Anatomy and Physiology II Lab
Or BIOL 2720 Anatomy and Physiology of Domestic Animals II
CHEM 2250 Organic Chemistry II Lecture
CHEM 2255 Organic Chemistry II Laboratory
Free Elective

Year 2

Fall Semester

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

Spring Semester

Arts and Humanities
BIOL 2202 Genetics
Flex Discoveries
Free Elective
STAT 2020 Elements of Statistics

Year 4

Fall Semester

BIOL 3330 Cell Biology
Or BIOL 4320 Molecular Biology
CHEM 4600 Biochemistry I Lecture
CHEM 4605 Biochemistry I Laboratory
Free Elective
Free Elective

Spring Semester

BIOL 3330 Cell Biology
Capstone
Free Elective
Free Elective