

- Minimum 30 of the last 60 credits earned at PennWest.
- Minimum of 23 major credits must be completed at PennWest or a State System (PASSHE) university.
- Minimum Total of 42 Credits in Advanced Coursework.

General Education

Foundations: (16-18 Credits)

First Year Seminar (3 Credits)

- ☐ FYS 1000 Navigating the First Year at PennWest

Quantitative Reasoning (4 Credits)

- ☐ 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)

- ☐ _____
☐ _____

Social Sciences (6 Credits)

- ☐ _____
☐ _____

Natural Sciences and Technology (8 Credits)

- ☐ CHEM 1108 General Chemistry I
☐ MATH 2420 Calculus II

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

- ☐ CHEM 1128 General Chemistry II
☐ _____
☐ _____

Essential Skills:

Intensive Writing

- ☐ CHEM 2205 Organic Chemistry I
☐ Or CHEM 4605 Biochemistry I

Capstone

- ☐ CHEM 4900 Chemistry 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: (46-48 Credits)

- ☐ PHYS 1500 General Physics I Lecture
☐ PHYS 1510 General Physics I Laboratory
☐ Or PHYS 2500/2510 University Physics I Lecture & Laboratory
☐ PHYS 1600 General Physics II Lecture
☐ PHYS 1610 University Physics II Laboratory
☐ Or PHYS 2600/2610 University Physics II Lecture & Laboratory
☐ CHEM 2200 Organic Chemistry I Lecture
☐ CHEM 2205 Organic Chemistry I Laboratory
☐ CHEM 2250 Organic Chemistry II Lecture
☐ CHEM 2255 Organic Chemistry II Laboratory
☐ CHEM 3300 Inorganic Chemistry I Lecture
☐ CHEM 3305 Inorganic Chemistry I Laboratory
☐ CHEM 3400 Quantitative Chemical Analysis Lecture
☐ CHEM 3405 Quantitative Chemical Analysis Laboratory
☐ CHEM 3450 Instrumental Methods Analysis
☐ CHEM 4500 Physical Chemistry I Lecture
☐ CHEM 4505 Physical Chemistry I Laboratory
☐ CHEM 4600 Biochemistry I Lecture
☐ CHEM 4605 Biochemistry I Laboratory
☐ CHEM 4115 Advanced Chemistry Laboratory I
☐ CHEM 4125 Advanced Chemistry Laboratory II
☐ CHEM 4900 Chemistry Capstone

Major Electives: (6 Credits)

Choose 2 courses from the following:

- ☐ CHEM 3350 Inorganic Chemistry II
☐ CHEM 4250 Polymer Chemistry
☐ CHEM 4550 Physical Chemistry II
☐ CHEM 4650 Polymer Biochemistry II

Free Electives: (28 Credits)

- ☐ _____
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Suggested Four Year Course Sequence

Year 1

Fall Semester

CHEM 1108 General Chemistry I
ENGL 1200 College Composition
FYS 1000 Navigating the First Year at PennWest
MATH 2410 Calculus I

Spring Semester

CHEM 1128 General Chemistry II
MATH 2420 Calculus II
Oral Communication
Technological Literacy

Year 3

Fall Semester

CHEM 4500 Physical Chemistry I Lecture
And CHEM 4505 Physical Chemistry I Lab
Or CHEM 4515 Intermediate Lab
CHEM 4600 Biochemistry I Lecture
And CHEM 4605 Biochemistry I Lab
Social Science
Flex Discoveries

Spring Semester

CHEM 3010 Chemistry Career & Prof Dev II
CHEM 3450 Instrumental Methods Lec
And CHEM 3455 Instructional Methods Lab
CHEM 4550 Physical Chemistry II Lec
And CHEM 4555 Physical Chemistry II Lab
Or CHEM 4515 Intermediate Lab
Arts and Humanities

* Strongly advise PHYS 2500/2510 and PHYS 2600/2610 series.

Year 2

Fall Semester

Arts and Humanities
CHEM 2200 Organic Chemistry I Lecture
And CHEM 2205 Organic Chemistry I Laboratory
CHEM 3400 Quantitative Chemical Analysis Lecture
And CHEM 4505 Physical Chemistry I Laboratory
Or CHEM 3415 Intermediate Chemistry II Laboratory
PHYS 1500/10 General Physics I Lecture
Or PHYS 2500/10 University Physics I Laboratory

Spring Semester

CHEM 2010 Chemistry Career and Professional Development I
CHEM 2250 Organic Chemistry II Lecture
And CHEM 2255 Organic Chemistry II Laboratory
Or CHEM 4115 Advanced Chemistry I Laboratory
CHEM 3300 Inorganic Chemistry I Lecture
And CHEM 3305 Inorganic Chemistry I Laboratory
Or CHEM 3315 Intermediate Laboratory
PHYS 1600/2600 Physics II Lecture *
And PHYS 1610/2610 Physics II Laboratory *

Year 4

Fall Semester

CHEM 3350 Inorganic Chemistry II Lecture
And Inorganic Chemistry II Laboratory
Advanced Chemistry Elective
Advanced Chemistry Laboratory/Research
Social Science
Free Elective

Spring Semester

CHEM 4900 Chemistry Capstone
Advanced Chemistry Elective
Free Elective
Free Elective
Free Elective

Select General Education courses through faculty advisement.