

Advising Course Plan - Biochemistry Major 3- Year Plan

This advising plan shows an example of working through the requirements for the major in three years. It is appropriate for students who have already completed eight units of coursework. The student's individual academic plan will be developed in consultation with an adviser and reviewed each semester prior to registering for the next semester. This plan assumes that the student has completed four units of appropriate general education courses, two units of general chemistry (with lab), and two units of calculus w/analytical geometry prior to the first semester shown in the plan.

Courses for the major that should be completed prior to the first semester of this plan: CHEM 141P (General Chemistry I), CHEM 142P (General Chemistry II), MATH 141Q (Calculus I), and MATH 142Q (Calculus II).

First Year		Units
Fall		
CHEM 201	Organic Chemistry I	1
CHEM 202	Inorganic Chemistry	1
PHYS 121P or 141P ¹	College Physics I University Physics I	1
BIOL 141P	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
Term Units		4
Spring		
CHEM 301	Organic Chemistry II	1
CHEM 205	Analytical Chemistry	1
PHYS 122P or 142P ¹	College Physics II University Physics II	1
BIOL 142P	Introductory Biology: Animal and Plant Physiology	1
Term Units		4
Second Year		
Fall		
CHEM 203 ²	Physical Chemistry	1
Junior Seminar		1
BIOL 300-Level Elective Requirement ³		1
General Education Requirement or Elective		1
Term Units		4
Spring		
CHEM 204	Biochemistry I	1
CHEM 498 ⁴	Research Proposal	1
BIOL 300-Level Elective Requirement ³		1
General Education Requirement or Elective		1
Term Units		4
Third Year		
Fall		
CHEM 499 ⁴	Senior Project	1
CHEM 304	Biochemistry II	1
General Education Requirement or Elective		1
General Education Requirement or Elective		1
Term Units		4
Spring		
300-Level CHEM In-Depth Chemistry Course Requirement ⁵		1
General Education Requirement or Elective		1
General Education Requirement or Elective		1

General Education Requirement or Elective	1
Term Units	4

Total Unit: 24

- ¹ Either PHYS 121P and PHYS 122P or PHYS 141P and PHYS 142P are acceptable.
- ² MATH 142Q and PHYS 142P or PHYS 122P are prerequisites for this course
- ³ Students must take TWO courses chosen from BIOL 300, BIOL 301, BIOL 302, BIOL 315, BIOL 409, or BIOL 425.
- ⁴ Students must have completed CHEM 201, CHEM 202, CHEM 203, and CHEM 205 and be currently enrolled in CHEM 204 to enroll in CHEM 498.
- ⁵ Students must take ONE in-depth chemistry electives chosen from CHEM 302, CHEM 303, CHEM 305, CHEM 306, CHEM 307, CHEM 308, or CHEM 309.