

Advising Course Plan - Biochemistry Major

First Year

Fall		Units
CHEM 141P	General Chemistry I	1
MATH 141Q ¹	Calculus I with Analytic Geometry	1
FSEM 100	First Year Seminar	1
General Education requirement ²		1
Term Units		4

Spring		
CHEM 142P	General Chemistry II	1
MATH 142Q	Calculus II with Analytic Geometry	1
Writing Enhanced course requirement		1
General Education requirement ²		1
Term Units		4

Second Year

Fall		
CHEM 201	Organic Chemistry I	1
PHYS 121P or 141P	College Physics I University Physics I	1
Writing enhanced course requirement		1
General Education requirement ²		1
Term Units		4

Spring		
CHEM 301	Organic Chemistry II	1
CHEM 202	Inorganic Chemistry	1
PHYS 142P	University Physics II	1
General Education requirement ²		1
Term Units		4

Third Year

Fall		
CHEM 203	Physical Chemistry	1
One 300-level CHEM course		1
Junior Seminar ³		1
BIOL 141P ⁴	Introductory Biology I: Biochemistry, Cell Biology and Molecular Genetics	1
Term Units		4

Spring		
CHEM 205	Analytical Chemistry	1
CHEM 204	Biochemistry I	1
BIOL 142P ⁴	Introductory Biology II: Animal and Plant Physiology	1
CHEM 498	Research Proposal	1
Term Units		4

Fourth Year

Fall		
CHEM 499	Senior Project	1
CHEM 304	Biochemistry II	1
BIOL Elective		1
Elective		1
Term Units		4

Spring		
BIOL Elective		1
General Education Requirement or Elective ²		1
Elective		1
Elective		1
Term Units		4

Total Unit: 32

* Note that MOST of the required classes are offered ONLY once a year (either Fall or Spring semester) so they must be taken in sequence.

¹ MATH 141Q may be satisfied by taking the two-course sequence MATH 130 and MATH 131Q.

2 Advising Course Plan - Biochemistry Major

2 Students must select at least one class from five of the six different *Knowledge of Human Cultures and the Natural World* areas; A, B, H, S, L, and P designations (FIVE classes total); and ONE class from among the following five different *Personal and Social Responsibility* areas; R, E, W, D, J designations).

3 Students must select ONE *Junior Seminar* from among the following five areas: R, E, W, D, and J.

4 Students may choose to reverse PHYS/BIOL sequence and take BIOL first.

5 In-depth CHEM requirement (Choose ONE from CHEM 302, CHEM 303, CHEM 305, CHEM 306, CHEM 307, or CHEM 308).