

# Advising Course Plan - Biochemistry Major

First Year		
<b>Fall</b>		
CHEM 141P	General Chemistry I	1
MATH 141Q <sup>1</sup>	Calculus I with Analytic Geometry	1
FSEM 100	First Year Seminar	1
General Education requirement <sup>2</sup>		1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
CHEM 142P	General Chemistry II	1
MATH 142Q	Calculus II with Analytic Geometry	1
Writing Enhanced course requirement		1
General Education requirement <sup>2</sup>		1
<b>Term Units</b>		<b>4</b>
<b>Second Year</b>		
<b>Fall</b>		
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 <sup>2</sup>		1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
CHEM 301	Organic Chemistry II	1
CHEM 202	Inorganic Chemistry	1
PHYS 142P	University Physics II	1
General Education requirement <sup>2</sup>		1
<b>Term Units</b>		<b>4</b>
<b>Third Year</b>		
<b>Fall</b>		
CHEM 203	Physical Chemistry	1
One 300-level CHEM course		1
Junior Seminar <sup>3</sup>		1
BIOL 141P <sup>4</sup>	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
CHEM 205	Analytical Chemistry	1
CHEM 204	Biochemistry I	1
BIOL 142P <sup>4</sup>	Introductory Biology: Animal and Plant Physiology	1
CHEM 498	Research Proposal	1
<b>Term Units</b>		<b>4</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CHEM 499	Senior Project	1
CHEM 304	Biochemistry II	1
BIOL Elective		1
Elective		1
<b>Term Units</b>		<b>4</b>
<b>Spring</b>		
BIOL Elective		1
General Education Requirement or Elective <sup>2</sup>		1
Elective		1
Elective		1
<b>Term Units</b>		<b>4</b>
<b>Total Unit: 32</b>		

\* 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.

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

<sup>2</sup> 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).

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

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

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