

Example Program
Chemical and Biomolecular Engineering Degree
Students entering Fall 2003 or later with no advanced placement credits

Freshman Year/Fall

030.101	Intro to Chemistry I	3
030.105	Intro to Chemistry I Lab	1
110.108	Calculus I	4
171.101	General Physics I	4
173.111	General Physics Lab I	1
540.101	Chemical and Biomol. Eng. in Workplace	1
<u>H/S Elective</u>		<u>3</u>
Total		17

Freshman Year/Spring

030.102	Intro to Chemistry II	3
030.106	Intro to Chemistry II Laboratory	1
110.109	Calculus II	4
171.102	General Physics II	4
<u>H/S Elective</u>		<u>3</u>
Total		15

Sophomore Year/Fall

540.202	Intro. Chemical & Biological Process Analysis	4
540.490	Chemical and Biomolecular Lab Safety and Ethics*	1
110.202	Calculus III	4
020.305	Biochemistry	4
030.205	Organic Chemistry I	4
<u>Total</u>		<u>17</u>

Sophomore Year/Spring

540.203	Engineering Thermo	3
540.303	Transport I	4
110.302	Differential Equations with Applications	4
<u>Advanced Chemistry Elective†</u>		<u>4</u>
Total		15

Junior Year/Fall

540.204	Applied Physical Chem.	3
540.304	Transport II	4
030.307	Physical Chemistry Instrumentation Lab III	3
Undesignated Elective		3
<u>H/S Elective</u>		<u>3</u>
Total		16

Junior Year/Spring

540.301	Kinetic Processes	4
540.306	Chemical & Biological Separations	4
Advanced Chemistry Elective		3
Undesignated Elective		3
<u>H/S Elective</u>		<u>3</u>
Total		17

Senior Year/Fall

540.311	Chemical Engineering Lab	6
540.409	Modeling Dynamics & Control for Chemical and Biological Systems	3
H/S Elective		3
<u>Engineering Elective</u>		<u>3</u>
Total		15

Senior Year/Spring

540.314	Chemical and Biomolecular Process Design	4
Engineering Elective		3
H/S Elective		3
<u>Undesignated Electives</u>		<u>6</u>
Total		16

*This course must be taken no later than the junior year. This course must be passed in order to be allowed to be involved in research in our department.

†Cell Biology is recommended (see undergraduate advising manual)

