Example Program: Chemical and Biomolecular Engineering Degree
Molecular and Cellular Bioengineering Concentration
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
H/S Elective		3
	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
H/S Elective		3
	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
	Total	17

Sophomore Year / Spring

540.203	Engineering Thermo	3
540.303	Transport I	4
110.302	Differential Equations with Applications	4
020.306	Cell Biology	4
	Total	15

*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.

Junior Year / Fall

540.204	Applied Physical Chem.	3
540.304	Transport II	4
020.315	Biochemistry Lab	2
Undesignated Elective		3
H/S Elective		3
	Total	15

Junior Year / Spring

540.301	Kinetic Processes	4
540.306	Chemical & Biological Separations	4
Undesignated Elective		3
020.316	Cell Biology Lab	2
H/S Elective		3
	Total	16

Senior Year / Fall

540.313	Biomolecular Engineering Lab	6
540.409	Modeling Dynamics & Control for Chemical and Biological Systems	3
H/S Elective		3
Bioengineering Elective		3
	Total	15

Senior Year / Spring

540.314	Chemical and Biomolecular Process Design	4
Bioengineering Elective		3
H/S Elective		3
Undesignated Electives		8
	Total	18