Example Program: Chemical and Biomolecular Engineering Degree <u>Interfaces and Nanotechnology Concentration</u> 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 Electi	ve	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 & Biolog	gical	
	Process Analysis	4	
540.314Chemical 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
Advanced	Chemistry Elective	3
	Total	14

*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.		
540.304	Transport II		
030.307	Physical Chemistry		
	Instrumentation Lab III	3	
030.452	Mat. & Surf. Charact.	3	
H/S Elective			
	Total	16	
Junior Year/Spring			
E40 201 Kinatia Dragona			

540.301Kinetic Processes4540.306Chemical & Biological
Separations4Undesignated Elective3Undesignated Elective3H/S Elective3Total17

Senior Year/Fall

540.311	Chemical	
	Engineering Lab	6
540.409	Modeling Dynamics &	
	Control for Chemical an	d
	Biological Systems	3
H/S Elective		3
Engineering Elective		3
-	Total	15

Senior Year/Spring

540.314	Chemical and Bion	nolecular
	Process Design	4
Engineering Elective		
H/S Elective		3
Undesignated Electives		7
Ū	Total	17