Chemistry Major 4-year Plan for Students starting in Math 160

1 st Year - Fall		
	Course	Credits
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
ENGL 101	Composition	3
MATH 160	Calculus I	4
UNIV 110	First Year Experience	3
Total Semester Credit Hours		14
	Total Overall Credit Hours	14

reaches starting in which 100		
	Course	Credits
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Lab	1
CHEM 150	Communication in Physical	3
	Science	
MATH 161	Calculus II	4
ENGL 211	Introduction to Technical and	3
	Professional Writing	
	Core Course	3
	Total Semester Credit Hours	17
	Total Overall Credit Hours	31

2 nd Year - Fall		
Course		Credits
CHEM 321	Quantitative Chemistry	3
CHEM 321L	Quantitative Chemistry Lab	1
CHEM 331	General Organic Chemistry I	3
CHEM 331L	General Organic Chemistry I	1
	Lab	
MATH 260	Calculus III	4
PHYS 211	Essentials of Physics I	3
PHYS 211L	Essentials of Physics I Lab	1
	16	
	Total Overall Credit Hours	47

2 nd Year - Spring		
	Course	
CHEM 332	General Organic Chemistry II	3
CHEM 332L	General Organic Chemistry II Lab	1
PHYS 212	Essentials of Physics II	3
PHYS 212L Essentials of Physics II Lab		1
	General Elective	3
	Core Course	3
	Total Semester Credit Hours	14
	Total Overall Credit Hours	61

3 rd Year - Fall		
	Course	Credits
CHEM 441	Physical Chemistry I	3
CHEM 441L	Physical Chemistry I Lab	1
CHEM 351	Biochemistry I	3
CHEM 351L	Biochemistry I Lab	1
CHEM 399	Independent Study	1
	General Elective	3
	Core Course	3
Total Semester Credit Hours		15
	Total Overall Credit Hours	76

3 rd Year - Spring		
	Course	Credits
CHEM 422	Instrumental Analysis	3
CHEM 422L	Instrumental Analysis Lab	1
CHEM 442	Physical Chemistry II	3
CHEM 442L	Physical Chemistry II Lab	1
CHEM 499* Directed Undergraduate		2
	Research	
	General Elective	3
	Core Course	3
	Total Semester Credit Hours	16
	Total Overall Credit Hours	92

4 th Year - Fall		
	Course	Credits
CHEM 311	Inorganic Chemistry	3
CHEM 3xx/4xx	Upper Level Chem Elective	4
CHEM 499*	Directed Undergraduate	1
	Research	
	General Elective	3
	Core Course	3
	Total Semester Credit Hours	14
	Total Overall Credit Hours	107

4 th Year - Spring		
	Course	Credits
CHEM 3xx/4xx	Upper Level Chem Elective	4
CHEM 499*	Directed Undergraduate	1
	Research	
	General Elective	3
	Core Course	3
	Core Course	3
	Total Semester Credit Hours	14
	Total Overall Credit Hours	120

Course Classes must come from Core 4,5,6,7 or 8. Completed Core $4\square$ 5 \square 6 \square 7 \square 8 \square

* 3 hours of CHEM	499 can be replac	ced with a General
Flective		

1 st Year - Spring	