

CHEMISTRY MAJOR

Four Year Plan for students starting in odd years

This is a suggested program guide. It is not to be interpreted as a contract. Changes may occur. Please see your program advisor before you register for courses. updated 8/23

YEAR	FALL		SPRING	
First Year	BENV 100 Becoming a Scholar	3	Writing Well Competency	3
	CEM 121 General Inorganic Chemistry 1	5	Living Well Competency	2-3
	(CPS 108 Computer Programming	3)	CEM 122 General Inorganic Chemistry 2	5
	MAT 135 Calculus 1	5	(MAT 136 Calculus 2	5)
	Total	16	Total	15-16
Second	BENV 200 Learning in Community	5	Creative Expression Competency	3
Year	CEM 221 Organic Chemistry 1	4	CEM 222 Organic Chemistry 2	4
	PHY 211 Physics for Science/Engineering 1	5	CEM 230 Analytical Chemistry	4
	Total	14	PHY 212 Physics for Science/ Engineering 2	
			Total	16
Third	Speaking and Listening Competency	3	Understanding Self and Society Competency	3
Year	Reading the Bible Competency	3	Electives	6
	Electives	3	BENV 300 Cross-cultural Experience	3
	CEM 330 Advanced Inorganic Chemistry*	4	CEM 311 Advanced Organic Chemistry*	2
	CEM 360 Instrumental Analysis*	4	Total	14
	Total	17		
Fourth	Exploring the Past Competency	3	Electives	9
Year	Religious Understanding Competency	3	BENV 400 Enduring Values Capstone	2
	Electives	3	CEM 327 Physical Chemistry 2*	2 5
	CEM 326 Physical Chemistry 1*	5	Total	16
	Total	14		

124 total hours needed to complete graduation requirements. (This includes 2 hours of arts and lecture credit.) **Boldface** print denotes major course requirement

() Electives that are very strongly recommended

The following courses are strongly recommended as electives

MAT 225 Multivariate Calculus 3 MAT 230 Linear Algebra 3

MAT 350 Differential Equations and Modeling* 3

Note: The Scientific Inquiry and Critical Analysis Competencies are met by the major.

^{*}Alternate year courses