

First Year – Fall Semester			First Year – Spring Semester		
CHEM 111, 111L	Principles of Chemistry I Sufficient math scores or min 'C' in CHEM 101, 101L, MATH 143, 160, or 170	4	CHEM 112, 112L	Principles of Chemistry II CHEM 111, 111L or Permission	5
MATH 170	Analytic Geometry and Calculus I MATH 143 with 'C' or better and 144, or sufficient exam scores	4	*CS 112	Computational Thinking and Problem Solving MATH 108 with 'C' or ACT/SAT score to qualify for MATH 143	3
ENGL 101	Intro to College Writing Sufficient ACT/SAT scores	3	MATH 175	Analytic Geometry and Calculus II MATH 170 with a grade of 'C' or better	4
*COMM 101	Fundamentals of Oral Communication	2	ENGL 102	College Writing and Rhetoric ENGL 101 or sufficient test scores	3
	American Diversity/International Course	3			
	Total Credits	16		Total Credits	15
Second Year – Fall Semester			Second Year – Spring Semester		
CHEM 253	Quantitative Analysis (Fall only) CHEM 112	3	CHEM 372	Organic Chemistry II (Spring only) CHEM 277	3
CHEM 254	Quantitative Analysis Lab (Fall only) CHEM 253	2	CHEM 374	Organic Chemistry II Lab (Spring only) CHEM 278, CHEM 372	1
CHEM 277	Organic Chemistry I CHEM 112	3	PHYS 211, 211L	Engineering Physics I (with lab) MATH 170	4
CHEM 278	Organic Chemistry I Lab CHEM 277	1		Humanities/Social Science Course	3
MATH 275	Analytic Geometry and Calculus III MATH 175	3		Humanities/Social Science Course	3
	Humanities/Social Science Course	3			
	Total Credits	15		Total Credits	14
Third Year – Fall Semester			Third Year – Spring Semester		
CHEM 305	Physical Chemistry I (Fall only) CHEM 112 and Math 275, PHYS 212 or PHYS 213	3	CHEM 306	Physical Chemistry II (Spring only) CHEM 305	3
CHEM 307	Physical Chemistry I Lab (Fall only) CHEM 305	1	CHEM 308	Physical Chemistry II Lab (Spring only) CHEM 306	1
PHYS 212, 212L	Engineering Physics II (with lab) PHYS 211 and 211L, Math 175	4	UPDV ELECTIVES	Other electives as needed	9
UPDV ELECTIVE	Other elective as needed	3		Humanities/Social Science Elective Course	3
	American Diversity/International Course	3			
	Total Credits	14		Total Credits	16
Fourth Year – Fall Semester			Fourth Year – Spring Semester		
CHEM 409	Proseminar Junior Standing	1	ELECTIVES	UPDV electives as needed	9
ELECTIVES	UPDV electives as needed	6	ELECTIVES	UPDV electives as needed	6
ELECTIVES	UPDV electives as needed	9			
	Total Credits	16		Total Credits	15

*Other options available