

First Year – Fall Semester			First Year – Spring Semester		
CHEM 111, 111L	Principles of Chemistry I <i>Sufficient math scores or min 'C' in CHEM 101, 101L, MATH 143, 160, or 170</i>	4	CHEM 112, 112L	Principles of Chemistry II <i>CHEM 111, 111L or Permission</i>	5
MATH 170	Analytic Geometry and Calculus I <i>MATH 143 with 'C' or better and 144, or sufficient exam scores</i>	4	MATH 175	Analytic Geometry and Calculus II <i>MATH 170 with a grade of 'C' or better</i>	4
ENGL 102	College Writing and Rhetoric <i>ENGL 101 or sufficient test scores</i>	3	BIOL 115, 115L	Cells and the Evolution of Life (with lab) <i>CHEM 101, 101L or 111, 111L</i>	4
*COMM 101	Fundamentals of Oral Communication	2		Humanities/Social Science Course (PSYC 101 or SOC 101 recommended)	3
	American Diversity/International Course	3			
Total Credits		16	Total Credits		16
Second Year – Fall Semester			Second Year – Spring Semester		
CHEM 253	Quantitative Analysis (Fall only) <i>CHEM 112</i>	3	CHEM 372	Organic Chemistry II (Spring only) <i>CHEM 277</i>	3
CHEM 254	Quantitative Analysis Lab (Fall only) <i>CHEM 253</i>	2	CHEM 374	Organic Chemistry II Lab (Spring only) <i>CHEM 278; CHEM 372</i>	1
CHEM 277	Organic Chemistry I <i>CHEM 112</i>	3	PHYS 211, 211L	Engineering Physics I (with lab) <i>MATH 170</i>	4
CHEM 278	Organic Chemistry I Lab <i>CHEM 277</i>	1	*CS 112	Computational Thinking and Problem Solving <i>MATH 108 with 'C' or ACT/SAT score to qualify for MATH 143</i>	3
MATH 275	Analytic Geometry and Calculus III <i>MATH 175</i>	3		Humanities/Social Science Course	3
	Humanities/Social Science Course (PSYC 101 or SOC 101 recommended)	3			
Total Credits		15	Total Credits		14
Third Year – Fall Semester			Third Year – Spring Semester		
CHEM 305	Physical Chemistry I (Fall only) <i>CHEM 112, 112L and Math 275, PHYS 212 or PHYS 213</i>	3	CHEM 306	Physical Chemistry II (Spring only) <i>CHEM 305</i>	3
CHEM 307	Physical Chemistry I Lab (Fall only) <i>CHEM 305</i>	1	CHEM 308	Physical Chemistry II Lab (Spring only) <i>CHEM 306</i>	1
PHYS 212, 212L	Engineering Physics II (with lab) <i>PHYS 211 and 211L; Math 175</i>	4	**BIOL 312, 313	Molecular and Cellular Biology and Lab (Spring only) <i>BIOL 115, 115L</i>	4
BIOL 380	Biochemistry (Fall only) <i>CHEM 112, 112L, and 277</i>	4	ELECTIVES	Other electives as needed	6
BIOL 382	Biochemistry Lab (Fall only) <i>BIOL 380 or equivalent</i>	2		Humanities/Social Science Course	3
Total Credits		14	Total Credits		17
Fourth Year – Fall Semester			Fourth Year – Spring Semester		
CHEM 409	Proseminar <i>Junior Standing</i>	1	CHEM 454	Instrumental Analysis (Spring only) <i>CHEM 253, 254, and 305; CHEM 306</i>	4
CHEM 473	Intermediate Organic Chemistry (Fall only) <i>CHEM 372; CHEM 306</i>	3	CHEM 472	Medicinal Chemistry (Alternate years) <i>CHEM 473, 476, or permission</i>	3
**ENGL 207 or 208	Persuasive Writing or Personal and Exploratory Writing <i>ENGL 102 or equivalent</i>	3	ELECTIVES	UPDV electives as needed	3
ELECTIVES	UPDV electives as needed	6		American Diversity/International Course	3
Total Credits		13	Total Credits		13

*Other options available

**Not required for major, but highly recommended for MCAT preparation