

First Year					
1st Semester (14 hrs)			2nd Semester (16 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM A111	General Chemistry I	4	CHEM A112	General Chemistry II	4
MATH A141	Calculus I	3	MATH A142	Calculus II	3
ENGL A101	Composition	3	ENGL A102	Comp. & Literature	3
BIOL A121	Biological Science I	4	GEN ED	Humanities	3
			GEN ED	Social/Behavioral Sciences	3
Second Year					
1st Semester (16 hrs)			2nd Semester (15 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM A331	Organic Chemistry I	3	CHEM A332	Organic Chemistry II	3
CHEM A331L	Organic Chemistry Lab I	1	CHEM A332L	Organic Chemistry Lab II	1
PHYS A211	Physics I	4	PHYS A212	Physics II	4
ENCP A200	Statics	3	ENCP A260	Intro to Mechanics	3
HIST A101/A102	GEN ED Global Cultures	3	CHEM A310	Research Methods	1
ELECT	Free elective	2	COMM A201/A241	GEN ED Oral Communications	3
Third Year					
1st Semester (14-15 hrs)			2nd Semester (14-16 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM Foundation 1 (intro.)	one of CHEM 311/321 or BIOL A541 and its lab	4	Advanced CHEM Elective 1	one of CHEM A511/521/550 and its lab	4/5
CHEM A541/L	Physical Chemistry I and lab	4	CHEM A542/L	Physical Chemistry II and lab	4
POLI A201 HIST A201/A202	GEN ED American Political Institutions	3	COGNATE	Engineering cognate	3/4
COGNATE	Engineering cognate	3/4	ELECT	Free elective	3
Fourth Year					
1st Semester (16-17 hrs)			2nd Semester (15-18 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM Foundation 2 (intro.)	another of CHEM A311/321 or BIOL A541	4	Advanced CHEM elective 2	another of CHEM A511/521/550	4/5
CHEM Foundation 3 (intro.)	last of CHEM 311/321 or BIOL 541	4	ELECT	Free elective	3/4
CHEM A499	Senior Research	2/3	CHEM A499	Senior Research	2/3
ELECT	Free elective	3	ELECT	Free elective	3
GEN ED	Humanities	3	ELECT	Free elective	3

Notes: Take one MATH class in the sequence every semester until MATH 142 is completed. Sequence is MATH 111→112→141→142.

Engineering Cognate: Choose 2 courses from MATH 241 (Calc III) or any ENCP 200 level or higher (except ENCP 200 & ENCP 260)

Gen Ed courses timing can be interchanged throughout. For example: First Year 2nd Semester lists GEN ED Humanities; but it can be swapped with any of GEN ED Global Cultures, GEN Ed Social Sciences, or GEN ED American Political Institutions. They can also be swapped with Cognates and the College Requirement.

Advanced Chemistry Elective: choose 2 of 3 from CHEM 511/521/550. Take one each Spring in 3rd & 4th year.

One Humanity/Social Science/College Elective/Cognate must be a "non-Western" course (see bulletin for listing)