

First Year

1st Semester (15 hrs)			2nd Semester (17 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM A111	General Chemistry I	4	CHEM A112	General Chemistry II	4
MATH A141	Calculus I	4	MATH A142	Calculus II	4
ENGL A101	Composition	3	ENGL A102	Comp. & Literature	3
BIOL A121	Biological Science I	4	GEN ED	Social/Behavioral Sciences	3
			GEN ED	Humanities	3

Second Year

1st Semester (15 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 A201/11	Physics I	4	PHYS A202/12	Physics II	4
MATH 241	Calculus III	4	CHEM A310	Research Methods	1
HIST A101/A102	GEN ED Global Cultures	3	GEN ED	GEN ED Oral Communications	3
			ELECT	Free Elective	3

Third Year

1st Semester (14-15 hrs)			2nd Semester (14-15 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM Foundation (intro)	one of CHEM 311/321 or BIOL 541 and its lab	4	Advanced CHEM elective	one of CHEM 511/521/550 and its lab	4/5
CHEM 541 & 541L	Physical Chemistry I & Lab	4	CHEM 542 & 542L	Physical Chemistry II & lab	4
POLI A201 HIST A201/A202	GEN ED American Political Institutions	3	COLLEGE REQ.	College requirement elective (not math or science)	3
COGNATE	Cognate	3/4	GEN ED	Humanities	3

Fourth Year

1st Semester (16-17 hrs)			2nd Semester (15-16 hrs)		
Course	Title	hrs	Course	Title	hrs
CHEM Foundation 2 (intro)	another of CHEM 311/321 or BIOL 541	4	Advanced CHEM elective 2	one of CHEM 511/521/550	4/5
CHEM Foundation 3 (intro)	last of CHEM 311/321 or BIOL 541	4	ELECT	Free elective	3
CHEM A499	Senior Research	2	CHEM A499	Senior Research	2
COGNATE	Cognate	3/4	ELECT	Free elective	3
ELECT	Free elective	3	ELECT	Free elective	3

Notes: Take one MATH class in the sequence every semester until MATH 142 is completed.

Courses that count as a cognate are any non CHEM course numbered 300-level or above and any of the following courses: BIOL A244, BIOL A250, ELCT A221, ENCP A200, ENCP A260, ENCP A290, MATH A241, MATH A242, PHYS A212. Cognates can double count as College Electives. A total of 8 credit hours of Cognate electives is required in addition to BIOL 541.

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