

Department:	Chemistry
Course Plan to Complete a:	B.S. Chemistry

[Chemistry, B.S. - Catalogue](#)

Year 1							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
CHEM	047	Organic Chemistry for Majors 1	4	CHEM	048	Organic Chemistry for Majors 2	4
CHEM	051	Exploring Chemistry 1	1	CHEM	052	Exploring Chemistry 2	1
MATH	021	Calculus I	4	MATH	022	Calculus II	4
		TAP Seminar	3			D1 Diversity	3
		Distribution	3			Distribution/Sustainability	3
			15				15
Year 2							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
CHEM	121	Quantitative Analysis	4	CHEM	114	Advanced Synthesis Techniques	3
CHEM	181	2nd Year Seminar: Writing	1	CHEM	182	2nd Year Seminar: Presentation	1
CHEM	205	Biochemistry I	3	PHYS	152	Fundamentals of Physics II	4
PHYS	051	Fundamentals of Physics 1	4			Distribution	3
		D2 - Diversity (Non-European Cultures Course)	3			Elective	3
			15				14
Year 3							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
CHEM	165	Introductory Physical Chemistry	3	CHEM	166	Physical Chemistry Laboratory	1
CHEM	231	Advanced Inorganic Chemistry	3	CHEM	167	Physical Chemistry Preparation	1
CHEM	291	Research	1	CHEM	219	Instrumental Analysis Laboratory	1
		Distribution	3	CHEM	221	Instrumental Analysis	3
		Distribution	3	CHEM	260	Advanced Physical Chemistry	3
		Elective	3			Elective	3
			16			Elective	3
							15
Year 4							
Fall				Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits
CHEM	199	Professional Development	1	CHEM	291	Research	1
CHEM	291	Research	1			Upper-level science elective	3
		Upper-level science elective	3			Elective	3
		Distribution	3			Elective	3
		Elective	3			Elective	3
		Elective	3			Elective	3
			14				16

NOTES:

6 credits in upper-level science electives are chosen by the student from a pre-approved list, in consultation with their academic advisor

SUBSTITUTIONS:

CHEM 031/032 (General Chemistry 1 and 2) for CHEM 051/052

CHEM 141/142 (Organic Chemistry 1 and 2) for CHEM 047/048-- however, CHEM 031/032 are pre-requisites for CHEM 141/142

MATH 121 (Calculus III) for CHEM 167

Distribution Requirements: B.S. degrees in the College of Arts and Sciences will be required to complete the following:

Natural Sciences: two courses with labs from specific departments, as defined by the major.

Mathematical Sciences: Two courses as defined by the major requirements.

Social Sciences: Two 3-credit courses in social science disciplines.

● *In addition, B.S. degree students are required to complete course in TWO of the following THREE categories:*

Fine Arts disciplines and Literature disciplines (two courses- one course in each area).

Foreign Language: two courses in the same foreign language.

Humanities: two 3-credit courses in a humanities discipline.

General Requirements:

One Diversity Category 1 course – minimum 3 credits

One Diversity Category 2 course from list of D2 Non-European Cultures courses – minimum 3 credits

One Sustainability Category course - minimum 3 credits

One Writing and Information Literacy course– minimum 3 credits

One Quantitative Reasoning course-minimum 3 credits