



# College of Natural Sciences & Mathematics

## Bachelor of Science - Chemistry

### Four-Year Academic Map – 2014-2015

Year 1	Semester 1			Semester 2			Total
	ENGL 1303	First Year Writing I	3	ENGL 1304	First Year Writing II	3	
	CHEM 1331	Fundamentals of Chemistry	3	CHEM 1332	Fundamentals of Chemistry	3	
	CHEM 1111	Fundamentals of Chemistry Lab	1	CHEM 1112	Fundamentals of Chemistry Lab	1	
	MATH 1431	Calculus	4	MATH 1432	Calculus II	4	
	CORE	Social & Behavioral Sciences	3	HIST 1378	The United States Since 1877	3	
	HIST 1377	The United States to 1877	3				
	Semester Hours			17	Semester Hours		14

Year 2	Semester 1			Semester 2			Total
	CHEM 3331	Fundamentals of Organic Chemistry I	3	CHEM 3369	Analytical Chemistry	3	
	CHEM 3221	Fundamentals of Organic Chem I Lab	2	CHEM 3119	Analytical Chemistry Laboratory	1	
	CHEM 2233	Inorganic Chemistry	2	CHEM 3222	Fundamentals of Organic Chemistry II	3	
	CHEM 2133	Inorganic Chemistry Laboratory	1	CHEM 3332	Fundamentals of Organic Chem II Lab	2	
	MATH 2433	Calculus III	4	PHYS 1322	University Physics II	3	
	PHYS 1321	University Physics I	3	PHYS 1121	Physics Laboratory I	1	
				MATH 3321	Engineering Mathematics	3	
Semester Hours			15	Semester Hours		16	31

Year 3	Semester 1			Semester 2			Total
	CHEM 4370	Physical Chemistry I	3	CHEM 4372	Physical Chemistry II	3	
	CHEM 4270	Physical Chemistry I Lab	2	CHEM 4272	Physical Chemistry II Lab	2	
	POLS 1336	U.S. & Texas Constitutions & Politics	3	POLS 1337	U.S. Govt: Congress, President, & Courts	3	
	PHYS 1122	Physics Laboratory II	1	CORE	Language, Philosophy & Culture	3	
	CORE	Writing in the Discipline	3		NSM Capstone or Elective	3	
	CORE	Creative Arts	3				
	Semester Hours			15	Semester Hours		14

Year 4	Semester 1			Semester 2			Total
	CHEM 4369	Instrumental Methods of Analysis	3	CHEM 4365	Inorganic Chemistry II	3	
	CHEM 4229	Instrumental Methods of Analysis Lab	2	CHEM 4115	Inorganic Chemistry Laboratory	1	
		Natural Sciences Approved Course	3	CHEM 4336	Fundamental Biochemistry	3	
		NSM Capstone or Elective	5	Elective	Advanced Approved Chemistry Elective	3	
					Natural Sciences Approved Course	3	
					NSM Capstone or Elective	3	
	Semester Hours			13	Semester Hours		16
							120

**Students should meet with their academic advisor to formulate their own plan.**

