CHEMISTRY - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		
Semester 1		Credits
ENGL 1110G	Composition I ¹	4
MATH 1511G	Calculus and Analytic Geometry I ¹	4
CHEM 1216	General Chemistry I Lecture and Laboratory for CHEM Majors ¹	4
CHEM 2111	Explorations in Chemistry	1
Area IV: Social and Be	havioral Science Course ²	3
	Credits	16
Semester 2		
ENGL 2210G	Professional and Technical Communication Honors	3
MATH 1521G	Calculus and Analytic Geometry II	4
CHEM 1226	General Chemistry II Lecture and Laboratory for CHEM Majors ¹	4
Area V: Humanities Co	burse ²	3
Elective Course		3
	Credits	17
Second Year		
Semester 1		
CHEM 313	Organic Chemistry I	3
CHEM 371	Analytical Chemistry	4
PHYS 2110	Mechanics	4
& 2110L	and Experimental Mechanics	
Elective Course		3
Elective Course		3
Semester 2	Credits	17
COMM 1115G	Introduction to Communication	3
CHEM 314 & CHEM 315	Organic Chemistry II and Organic Chemistry Laboratory ¹	5
PHYS 2140 & 2140L	Electricity and Magnetism and Electricity & Magnetism Laboratory ¹	4
Choose from one of th	ne following:	3
MATH 2530G	Calculus III	
MATH 3160	Introduction to Ordinary Differential Equations	
	Credits	15
Third Year		
Semester 1		
CHEM 430	Physical Chemistry: Thermodynamics, Kinetics, Quantum Chemistry, and Spectroscopy	3
Area VI: Creative and	Fine Arts Course ²	3
VWW: Viewing a Wide	r World Course ³	3

	Total Credits	120-121
	Credits	16-17
Elective Course ⁴		3
Elective Course ⁴		3
Elective Course ⁴		3
BCHE 395	Biochemistry I	
BCHE 341	Survey of Biochemistry	
Select one of the fol	lowing:	3-4
CHEM 472	Advanced Integrated Instrumental Analysis and Protein Biochemistry Laboratory	3
CHEM 443	Senior Seminar ¹	1
Semester 2	Credits	15
Elective Course ⁴		3
Elective Course 4		3
Elective Course 4		3
VWW: Viewing a Wid	ler World Course ³	3
CHEM 471	Advanced Integrated Inorganic and Physical Chemistry Laboratory ¹	3
Semester 1		
Fourth Year		
	Credits	12
Elective Course		3
Elective Course		3
Upper Division Chen	nistry Elective Course	3
CHEM 456	Inorganic Structure and Bonding	3
Semester 2		
	Credits	12
MATH 2415	Introduction to Linear Algebra	
PHYS 315	Modern Physics	
Choose one of the fo	ollowing:	3

¹ These courses may have prerequisites and/or co-requisites, and it is the students responsibility for checking and fulfilling all those requirements.

 ² See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.

³ See the Viewing a Wider World (https://catalogs.nmsu.edu/ nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section of the catalog for a full list of

courses.
Students who need to enroll in 15 credits a semester for Financial Aid purposes will need to enroll in additional elective credits to meet that requirement.