CHEMISTRY (SECONDARY EDUCATION) - 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 or ENGL 1110H	Composition I [1] or Composition I Honors	4
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I [1] or Calculus and Analytic Geometry I Honors	4
CHEM 1215G or CHEM 1216	General Chemistry I Lecture and Laboratory for STEM Majors or General Chemistry I Lecture and Laboratory for CHEM Majors	4
CHEM 2111	Explorations in Chemistry and Biochemistry	1
Area IV: Social and Behavioral Science Course [2]		3
	Credits	**16**
Semester 2		
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II or Calculus and Analytic Geometry II Honors	4
CHEM 1225G or CHEM 1226	General Chemistry II Lecture and Laboratory for STEM Majors or General Chemistry II Lecture and Laboratory for CHEM Majors	4
Area V: Humanities Course [2]		3
SPED 3105	Introduction to Special Education in a Diverse Society	3
	Credits	**17**
Second Year		
Semester 1		
CHEM 313	Organic Chemistry I	3
CHEM 371	Analytical Chemistry	4
PHYS 2110 & 2110L	Mechanics and Experimental Mechanics	4
Elective Course		3
EDUC 3120	Multicultural Education	3
	Credits	**17**
Semester 2		
COMM 1115G or HNRS 2175G	Introduction to Communication or Introduction to Communication Honors	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 the following:		3
MATH 2530G	Calculus III	
MATH 3160	Introduction to Ordinary Differential Equations [1]	
	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
EDUC 3997	Secondary Field Experience	3
Choose one of the following:		3
PHYS 315	Modern Physics	
MATH 2415	Introduction to Linear Algebra	
BCHE 395	Biochemistry I	3
	Credits	**15**
Semester 2		
CHEM 456	Inorganic Structure and Bonding	3
Upper Division Chemistry Elective Course		3
Elective Course		3
READ 4330	Content Area Literacy	3
CHEM 472	Advanced Integrated Instrumental Analysis and Protein Biochemistry Laboratory	3
	Credits	**15**
Fourth Year		
Semester 1		
CHEM 471	Advanced Integrated Inorganic and Physical Chemistry Laboratory [1]	3
VWW: Viewing a Wider World Course [3]		3
Elective Course [4]		3
EDUC 4410	Teaching Science at the Middle and High School Level	3
	Credits	**12**
Semester 2		
CHEM 443	Senior Seminar [1]	1
EDUC 4820	Secondary Student Teaching	9
EDUC 4821	Middle and High School Student Teaching Seminar	3
	Credits	**13**
	Total Credits	**120**

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/general-education-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.
4. 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.