BIOCHEMISTRY - BACHELOR OF SCIENCE

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework. All departmental and nondepartmental requirements may not be taken S/U and must earn a C- or better final grade.

Prefix	Title	Credits
General Education		
Area I: Communications	3	
English Composition - L	evel 1 ¹	4
English Composition - L	evel 2	
ENGL 2210G	Professional and Technical Communication Honors (Recommended)	3
Oral Communication		
COMM 1115G	Introduction to Communication (Recommended)	3
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I ²	4
Area III/IV: Laboratory S	Sciences and Social/Behavioral Sciences	11
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ³	
or CHEM 1216	General Chemistry I Lecture and Laboratory for CHEM Majors	Л
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ³	
or CHEM 1226	General Chemistry II Lecture and Laboratory for CHE Majors	Μ
Area IV: Social/Beh	avioral Sciences Course (3 credits) ¹	
Area V: Humanities ¹		3
Area VI: Creative and Fi	ne Arts ¹	3
General Education Elect	tive	
MATH 1521G	Calculus and Analytic Geometry II	4
or MATH 1521H	Calculus and Analytic Geometry II Honors	
Viewing A Wider World	l ⁴	6
Departmental/College	Requirements	
CHEM 313	Organic Chemistry I	3
CHEM 314	Organic Chemistry II	3
CHEM 315	Organic Chemistry Laboratory	2
CHEM 371	Analytical Chemistry	4
BCHE 140	Introduction to Biochemistry	1
BCHE 395	Biochemistry I	3
BCHE 396 H	Biochemistry II Honors, Lecture and Laboratory	4
BCHE 440	Biochemistry Seminar	1
CHEM 430	Physical Chemistry: Thermodynamics, Kinetics, Quantum Chemistry, and Spectroscopy	3
CHEM 471	Advanced Integrated Inorganic and Physical Chemistry Laboratory	3
CHEM 472	Advanced Integrated Instrumental Analysis and Protein Biochemistry Laboratory	3
Select two of the follow	wing:	6
BCHE 432	Physical Biochemistry	

BCHE 451	Special Topics	
CHEM 451	Special Topics (by petition only)	
CHEM 456	Inorganic Structure and Bonding	
Non-Departmental F	Requirements (in addition to Gen.Ed/VWW)	
A ST 311	Statistical Applications	3
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology and Principles of Biology: Cellular and	
	Molecular Biology Laboratory	
BIOL 311	General Microbiology	3
BIOL 311 L	General Microbiology Laboratory	2
BIOL 305	Principles of Genetics	3
or GENE 320	Hereditary and Population Genetics	
BIOL 377	Cell Biology	3
Select one from the	following:	3
PHYS 2110	Mechanics ⁵	
PHYS 1230G	Algebra-Based Physics I	
PHYS 2230G	General Physics for Life Science I	
PHYS 1310G	Calculus -Based Physics I	
Select one from the	following:	3
PHYS 2140	Electricity and Magnetism ⁶	
PHYS 1240G	Algebra-Based Physics II	
PHYS 2240G	General Physics for Life Science II	
PHYS 1320G	Calculus -Based Physics II	
Select one from the	following:	1
PHYS 2110L	Experimental Mechanics ⁷	
PHYS 1230L	Algebra-Based Physics I Lab	
PHYS 2230L	Laboratory to General Physics for Life Science I	
PHYS 1310L	Calculus -Based Physics I Lab	
Select one from the	following:	1
PHYS 2140L	Electricity & Magnetism Laboratory ⁷	
PHYS 1240L	Algebra-Based Physics II Lab	
PHYS 2240L	Laboratory to General Physics for Life Science II	
PHYS 1320L	Calculus -Based Physics II Lab	
Second Language R	equirement: (not required)	
Electives, to bring th	e total credits to 120	
	ctives to bring total credits to 120, including 48	17
pper division.	5 . 5	
otal Credits		120
education-viewi courses MATH 1511G Ca degree but stud enter MATH 151 CHEM 1216 Ger Majors and CHE for CHEM Major	Education (https://catalogs.nmsu.edu/nmsu/ge ng-wider-world/) section of the catalog for a full I alculus and Analytic Geometry I is required for the ents may need to take any prerequisites needed to 11G first. neral Chemistry I Lecture and Laboratory for CHEI EM 1226 General Chemistry II Lecture and Laborators are recommended and are acceptable General titutions for CHEM 1215G General Chemistry I Lecture	ist of e o M tory
II Lecture and L exception that of See the Viewing general-educati	for STEM Majors and CHEM 1225G General Chen aboratory for STEM Majors but will need a degree can be coordinated with your advisor. g a Wider World (https://catalogs.nmsu.edu/nms on-viewing-wider-world/#viewingawiderworldtext atalog for a full list of courses	audit u/

⁵ PHYS 2110 Mechanics is the recommended Physics I course for B.S. majors. PHYS 1230G Algebra-Based Physics I, PHYS 2230G General

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Physics for Life Science I, and PHYS 1310G Calculus -Based Physics I are acceptable and are recommended in the decreasing order listed.

- ⁶ PHYS 2140 Electricity and Magnetism is the recommended Physics II course for B.S. majors. PHYS 1240G Algebra-Based Physics II, PHYS 2240G General Physics for Life Science II, and PHYS 1240G Algebra-Based Physics II are acceptable and are recommended in the decreasing order listed. Students are highly cautioned to check prerequisites for the individual courses when schedule planning.
- ⁷ Students are strongly encouraged to verify prerequisite/corequisite requirements for Physics labs when schedule planning.

Second Language Requirement

For the Bachelor of Science with a major in Biochemistry there is no second language requirement for the degree.