MICROBIOLOGY - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra 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 1220G	College Algebra ¹	3
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology,	4
	and Evolution Laboratory	
	havioral Science Course ²	3
Elective Course		1
	Credits	15
Semester 2		
MATH 1250G	Trigonometry & Pre-Calculus ¹	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	4
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
Choose from one of the		3
COMM 1115G	Introduction to Communication	3
HNRS 2175G	Introduction to Communication Honors	
ACOM 1130G	Effective Leadership and Communication in	
ACCIVITIONS	Agriculture	
	Credits	15
Second Year		
Semester 1		
Choose from one of the	ne following:	3
ENGL 2210G	Professional and Technical Communication Honors	
ENGL 2215G	Advanced Technical and Professional Communication	
MATH 1511G	Calculus and Analytic Geometry I 1	4
	carearas ana / mary no ocomony .	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	4
CHEM 1225G BIOL 311 & 311 L	General Chemistry II Lecture and Laboratory	
BIOL 311	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology	4
BIOL 311	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹	5
BIOL 311 & 311 L	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹	5
BIOL 311 & 311 L Semester 2 BIOL 305 CHEM 313	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹ Credits Principles of Genetics ¹ Organic Chemistry I ¹	5
BIOL 311 & 311 L Semester 2 BIOL 305	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹ Credits Principles of Genetics ¹ Organic Chemistry I ¹	5 16
BIOL 311 & 311 L Semester 2 BIOL 305 CHEM 313	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹ Credits Principles of Genetics ¹ Organic Chemistry I ¹ purse ²	16 3 3
BIOL 311 & 311 L Semester 2 BIOL 305 CHEM 313 Area V: Humanities Co	General Chemistry II Lecture and Laboratory for STEM Majors ¹ General Microbiology and General Microbiology Laboratory ¹ Credits Principles of Genetics ¹ Organic Chemistry I ¹ purse ²	16 3 3 3

Initial Second Lang	juage Course in series	3
	Credits	15
Third Year		
Semester 1		
CHEM 314	Organic Chemistry II ¹	3
CHEM 315	Organic Chemistry Laboratory ¹	2
PHYS 2230G & PHYS 2230L	General Physics for Life Science I and Laboratory to General Physics for Life Science I ¹	4
BIOL 474	Immunology	3
Next Second Langu	uage Course in series ¹	3
	Credits	15
Semester 2		
PHYS 2240G & PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life Science II ¹	4
BCHE 395	Biochemistry I ¹	3
Upper-division Biol	ogy Elective (Microbiology) ¹	3
Area V: Creative and	d Fine Arts Course ²	3
VWW: Viewing a Wi	der World Course ³	3
	Credits	16
Fourth Year		
Semester 1		
BIOL 478	Molecular Biology of Microorganisms	3
Upper-division Biology Elective (Microbiology) ¹		3
VWW: Viewing a Wider World Course ³		3
Upper-division Elec	tive Course ¹	3
Elective Course		3
	Credits	15
Semester 2		
BIOL 479 & 479 L	Medical Microbiology and Medical Microbiology Laboratory ¹	4
Choose from one o		3
OHOUGE HOIH OHE O	Physiology of Microorganisms ¹	ŭ
BIOI 451		
BIOL 451		
BIOL 475	Virology ¹	3
BIOL 475 Upper-division Elec	Virology ¹	3
BIOL 475	Virology ¹ ctive Course ¹	3
BIOL 475 Upper-division Elec	Virology ¹	3 3 13

- These courses have prerequisites and/or co-requisites and it is the students responsibility for checking and fulfilling all requirements for these courses.
- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses
- 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.