

*The following roadmap is a sample academic planning resource. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

College: College of Natural Sciences and Mathematics

Degree: BS – Bachelor of Science

Major: Biological Sciences (Microbiology)*

Term #	Course #	Course Title	Units
1	X	Elective	3
	ENGL 5	Accelerated Academic Literacies	3
	MATH 26A	Calculus I for the Social and Life Sciences	3
	X	General Education Requirement Area E	3
	X	General Education Requirement Area F	3
		Semester Total	15
2	CHEM 1A	General Chemistry I	5
	STAT 1	Introduction to Statistics	3
	X	General Education Requirement Area A1	3
	X	General Education Requirement Area A3	3
	X	Elective	3
		Semester Total	17
3	BIO 1	Biodiversity, Evolution, and Ecology	5
	CHEM 1B	General Chemistry II	5
	ENGL 20	College Composition II	3
	X	American Institutions (GOVT)	3
		Semester Total	16
4	BIO 2	Cells, Molecules, and Genes	5
	CHEM 31	Quantitative Analysis	4
	X	General Education Requirement Area C1	3
	X	General Education Requirement Area C	3
		Semester Total	15

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Term #	Course #	Course Title	Units
5	BIO 100	Introduction to Scientific Analysis	3
	BIO 184	General Genetics	4
	CHEM 20	Organic Chemistry Lecture - Brief Course	3
	CHEM 20L	Introductory Organic Chemistry Laboratory	1
	X	Foreign Language Semester 1	4
		Semester Total	15
6	BIO 121	Molecular Cell Biology	3
	BIO 139	General Microbiology	4
	CHEM 161	General Biochemistry	3
	X	American Institutions (US HIST)	3
	X	Foreign Language Graduation Requirement Semester 2	4
		Semester Total	17
7	BIO 180	Advanced Molecular Biology	4
	CHEM 162	General Biochemistry Laboratory	3
	PHYS 5A	General Physics: Mechanics, Heat, Sound	3
	X	BIO List 3 or 4 Elective	3
	X	Upper Division General Education Requirement Area C	3
		Semester Total	16
8	BIO 143	General Virology	3
	BIO 145	The Diversity of Microorganisms	4
	PHYS 5B	General Physics: Light, Electricity, and Magnetism, Modern Physics	3
	X	BIO List 3 or 4 Elective	3
	X	Upper Division General Education Requirement Area D + Writing Intensive	3
		Semester Total	16