

Bachelor of Science in Natural Sciences

Major: Microbiology

2020-2021 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA 2.0 in major courses Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 119	First Year Seminar		2	F	
BIOL 151-1551L	General Biology I and Lab (SGR #6)	c. BIOL 151/L	4	F	
CHEM 112	General Chemistry I	c. MATH 114 or higher placement	3	F/S/Su	
CHEM 112L	General Chemistry I Lab		1	F/S/Su	
ENGL 101	Composition I (SGR #1)	p. Placement	3	F/S/Su	
SGR #3	Social Sciences/Diversity	See list in catalog	3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 153-153L	General Biology II and Lab		4	S	
BIOL 290 or MICR 290	Seminar		1	S	
CHEM 114	General Chemistry II	p.			



Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Research and/or internship				

Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Applied and Environ. Microbiology	BIOL 235, MICR 450, MICR 421/L, MICR 310/L, and MICR 311/L	3-4 credits course depending	3-4		
BIOL 383	Bioethics		4	F	
CHEM 464	Biochemistry I	p. CHEM 229 or 328	3	F/SU	
MICR 490	Seminar		2		
PHYS elective	Physics elective	p. MATH 114 or higher Discuss with advisor whether PHYS 111-113 is appropriate	4		
Total Credit Hours			16-17		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 466	Laboratory Methods - Biochemistry	p. CHEM 464	1	F/S	
MICR 332	Microbial Physiology	p. MICR 231/L or 233/L	2	S	
MICR 332L	Microbial Physiology Lab		2	S	
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3	F/S/Su	
General Electives	Select from any discipline		6		
Total Credit Hours			14		

GRE preparation if pursuing graduate school