

Biological Sciences Semester Conversion Guide for Microbiology Option

Major: **Biology**

Option: **Microbiology**

Quarter System

Semester System

Required Core Courses			Units				Units	
Foundations of Biology: Energy and Matter, Cycles and Flows & Lab	BIO 121/L	3/2	Foundations of Biology: Energy, Matter, and Information	BIO 1210	3/1			
Foundations of Biology: Reproduction and Development & Lab	BIO 122/L	3/2	Split between BIO 1210/L and BIO 1220/L					
Foundations of Biology: Biodiversity & Lab	BIO 123/L	3/2	Foundations of Biology: Evolution, Ecology, and Biodiversity	BIO 1220	3/1			
Genetics	BIO 303	4	Genetics	BIO 2400	3			
Cell and Molecular Biology	BIO 310	4	Cell and Molecular Biology	BIO 3220	3			
Microbial Physiology & Lab	MIC 428/L	4/1	Microbial Physiology & Lab	BIO 4660/L	3/1			
Scientific Communication	BIO 490	1	Does not continue - Use UD Elective*					
Biometrics	BIO 211	3	Does not continue - Use STA 1300*	STA 1300	3			
Biometrics Lab	BIO 211L	1	Biostatistics Lab** - Use STA 1300*	BIO 2110L	(1)			
Basic Microbiology & Lab	MIC 201/L	3/1	Basic Microbiology & Lab	BIO 2060/L	3/1			
Select 4 of the following 6 courses:			19-20	Take 12 units - Extra unit(s) will go to support electives				
Applied Microbiology	MIC 310/L	3/2	Applied Microbiology	BIO 3620/L	2/1			
Food Microbiology	MIC 320/L	3/1	Food Microbiology	BIO 3640/L	2/1			
Medical Bacteriology	MIC 410/L	3/2	Medical Microbiology (combined)	BIO 4635/L	3/1			
Immunology-Serology	MIC 415/L	3/2	Immunology	BIO 4650/L	3/1			
Medical Mycology	MIC 425/L	3/2	Combined to Medical Microbiology					
General Virology	MIC 430/L	3/2	General Virology	BIO 4670/L	3/1			
			General Epidemiology*	BIO 3600	3			
			Medical Virology*	BIO 4640	1			
			Microbial Ecology*	BIO 4680/L	2/1			

Required Support Courses			Units				Units	
General Chemistry & Lab 1st Quarter	CHM 121/L	3/1	General Chemistry I & Lab	CHM 1210/L	3/1			
General Chemistry & Lab 2nd Quarter	CHM 122/L	3/1	split between General Chemistry/Lab I & II					
General Chemistry & Lab 3rd Quarter	CHM 123/L	3/1	General Chemistry II & Lab	CHM 1220/L	3/1			
Organic Chemistry 1st Quarter	CHM 314	3	Organic Chemistry I (or CHM 2010*)	CHM 3140	3			
Organic Chemistry 2nd Quarter	CHM 315	3	split between Organic Chemistry I & II					
Organic Chemistry 3rd Quarter	CHM 315	3	Organic Chemistry II (or UD Elective*)	CHM 3150	3			
Organic Chemistry Lab 1st Quarter	CHM 317L	1	Organic Chemistry I Lab (or CHM2010L) [†]	CHM 3140L	1			
Biochemistry & Lab 1st Quarter	CHM 327/L	3/1	Biochemistry I & Lab (or CHM3210/L) [*]	CHM 3270/L	3/1			
Biochemistry & Lab 2nd Quarter	CHM 328/L	3/1	split between Biochemistry/Lab I & II					
Biochemistry & Lab 3rd Quarter	CHM 329/L	3/1	Biochemistry II & Lab (or UD Electives) [*]	CHM 3280/L	3/1			
College Physics & Lab 1st Quarter	PHY 121/L	3/1	College Physics I & Lab	PHY 1210/L	3/1			
College Physics & Lab 2nd Quarter	PHY 122/L	3/1	split between College Physics I & II					
College Physics & Lab 3rd Quarter	PHY 123/L	3/1	College Physics II & Lab	PHY 1220/L	3/1			
Calculus for Life Sciences	MAT 120	4	Calculus for Life Sciences	MAT 1200	3			
Support Electives		17-18	Support Electives[†]				~12	

* Petition required. Please consult an advisor.

** BIO2110L will not be offered in 2018/19. Please use STA 1300 to substitute both BIO 211 and Bio 211L.

† All surplus or deficient units due to conversion will be balanced with Support Elective Units.