

Biological Sciences Major Requirements: MICROBIOLOGY

This checklist serves as an advising tool for foundation and concentration requirements. It does not include CALS/A&S college requirements. Students are responsible for understanding all degree requirements, appropriate course sequencing and prerequisites and should consult the

FOUNDATION REQUIREMENTS						
Course Subject	Course No.	Course Title	Credit Hours	Semester Taken	✓ when done	Notes
Introductory Biology Cluster (Take two of the three following subjects) *AP credit for biology does not count towards the major						
BIOMG	1350	Principles of Cell & Developmental Biology	3			
BIOG	1440 or 1445	Introduction to Comparative Physiology or Individualized Instruction	3 4			
BIOEE	1610	Ecology and the Environment (*Also offered as summer course at Shoals Marine Lab)	3 (*4 cr. WIM option)			
Investigative Laboratory						
BIOG	1500	Biology Laboratory (*Also offered as summer course at Shoals Marine Lab)	2			
Evolutionary Biology and Diversity						
BIOEE	1780 or 1781	Evolutionary Biology & Diversity Introduction to Evolution and Diversity (*Also offered as summer course at Shoals Marine Lab)	4 4			
General Chemistry (CHEM 2070 & 2080 OR CHEM 2150)						
CHEM	2070	General Chemistry I	4			
	2080	General Chemistry II	4			
CHEM	2150	Honors General and Inorganic Chemistry	4			
College Mathematics (Two courses: one calculus AND one additional math. Consult <i>Courses of Study</i> for acceptable math courses.)						
MATH	1106 or 1110	Calculus for the Life and Social Sciences or Calculus I	3 4			
	XXXX	#### Math/Calculus II/Statistics	3-4			
Organic Chemistry (CHEM 1570 OR CHEM 3570 & 3580 OR CHEM 3590 & 3600 OR CHEM 3530)						
CHEM	1570	Introduction to Organic & Biological Chemistry	3			
CHEM	3570	Organic Chemistry for the Life Sciences I &	3			
	3580	Organic Chemistry for the Life Sciences II	3			
CHEM	3590	Honors Organic Chemistry I	4			
	3600	Honors Organic Chemistry II	4			
CHEM	3530	Principles of Organic Chemistry	4			
Physics (PHYS 1101 & 1102 OR PHYS 2207 & 2208 OR PHY 1112 & 2213)						
PHYS	1101	General Physics I &	4			
	1102	General Physics II	4			
PHYS	2207	Fundamentals of Physics I &	4			
	2208	Fundamentals of Physics II	4			
PHYS	1112	Physics I: Mechanics & Heat &	4			
	2213	Physics II: Electromagnetism	4			
Genetics and Genomics (Lecture must be taken either concurrently or before the laboratory)						
BIOMG	2800	Lectures in Genetics and Genomics	3			
	2801	Laboratory in Genetics and Genomics	2			
Biochemistry and Molecular Biology (BIOMG 3300 OR BIOMG 3330 OR BIOMG 3350 OR BIOMG 3310 & 3320)						
BIOMG	3300	Principles of Biochemistry, Individualized Instruction	4			
BIOMG	3330	Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology	4			
BIOMG	3350	Principles of Biochemistry: Proteins, Metabolism and Molecular Biology	4			
BIOMG	3310	Biochemistry: Proteins and Metabolism &	3			
	3320	Biochemistry: Molecular Biology	2			

CONCENTRATION REQUIREMENTS: Microbiology						
*Students are expected to consult with their faculty advisor when choosing courses towards concentration requirements.						
Course subject	Course No.	Course Title	Credit Hours	Semester Taken	✓ when done	Notes
Required Courses (*Students may only apply 3 credits of BIOMI 2900 towards satisfying the concentration requirements)						
BIOMI	2900	General Microbiology Lectures	3-4			
BIOMI	2911	General Microbiology Laboratory	2			
Additional Courses (Requires minimum of 7 additional credits. Consult <i>Courses of Study</i> for list of acceptable courses.)						

Courses of Study for additional information.

Consult the Biological Sciences section in *Courses of Study* for complete details regarding the major and for courses satisfying requirements. Also, consult college sections in *Courses of Study* for information on college requirements for graduation.

LONG-RANGE SCHEDULE PLANNER

	Fall	Spring	(Summer)
1 st Year			
2 nd Year			
3 rd Year			
4 th Year			