

Microbial, Cellular & Molecular Biology — Microbiology Option (MCMB)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
CHEM 1030 Fundamentals Chemistry I		3 CORE SOCIAL SCIENCE	3
CORE HISTORY		3 CHEM 1040 Fundamental Chemistry II	3
CHEM 1031 Fundamental Chemistry I Laboratory		1 CHEM 1041 Fundamental Chemistry II Laboratory	1
BIOL 1020 Principles of Biology		3 BIOL 1030 Organismal Biology	3
BIOL 1021 Principles of Biology Laboratory		1 BIOL 1031 Organismal Biology Laboratory	1
BIOL 2100 Professional Development		1	
		15	14

Sophomore

Fall	Hours	Spring	Hours
CHEM 2070 Organic Chemistry I		3 CHEM 2080 Organic Chemistry II	3
CHEM 2071 Organic Chemistry I Laboratory		1 CHEM 2081 Organic Chemistry II Laboratory	1
PHYS 1500 General Physics I		4 PHYS 1510 General Physics II	4
CORE LITERATURE		3 BIOL 3200 General Microbiology	3
BIOL 3000 Genetics		3 BIOL 3201 General Microbiology Laboratory	1
BIOL 3001 General Genetics Laboratory		1 CORE HISTORY or LIT ¹	3
		15	15

Junior

Fall	Hours	Spring	Hours
BCHE 5180 Biochemistry I		3 BCHE 5190 Biochemistry II	3
BCHE 5181 Biochemistry I Laboratory		1 MMCB Elective	2 or 3
BIOL 5200 Clinical Microbiology		5 BIOL 4100 Cell Biology	3
BIOL 5250 Microbial Evolution and Diversity		4 CORE FINE ARTS	3
MATH 1610 Calculus I		4 MATH 1620 Calculus II or STAT 2510 Statistics for Biological and Health Sciences ³	4 or 3
		17	15

Senior

Fall	Hours	Spring	Hours
BIOL 5260 Prokaryotic Molecular Genetics		3 BIOL 5210 Microbial Physiology	3
BIOL 5521 Gene Expression and Recombinant DNA Laboratory		2 MMCB Elective	4
Biology Elective		3 Biology Electives	4
CORE SOC SCI or HUM ²		3 Core Social Science	3
Free Elective		2 BIOL 4950 Senior Seminar	1
CORE HUMANITIES		3 UNIV 4AA0 Achieve the Creed	0

BIOL 4AA0 Professional Development II	0	
	16	15

Total Hours: 122

- ¹ Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the *Bulletin*.
- ² If a HIST sequence is chosen, this course must be a CORE HUMANITIES.
- ³ If STAT 2510 is chosen, an extra hour of MMCB Elective must be completed.