

MICROBIOLOGY/CELL & MOLECULAR BIOLOGY, BS

Example Plan of Study

Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
MATH 1513	College Algebra (A)	3
BIOL 1113 & BIOL 1111 or BIOL 1114	Introductory Biology (N) or Introductory Biology (LN)	4
MICR 1211	First Year Microbiology Laboratory Experience	1
General Education courses		7
Hours		15
Spring		
CHEM 1314	Chemistry I (LN)	4
BIOL 1604 or PBIO 1404	Animal Biology or Plant Biology (LN)	4
General Education courses		7
Hours		15
Sophomore		
Fall		
CHEM 1515	Chemistry II (LN)	5
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
General Education courses		5
Hours		15
Spring		
CHEM 3013 or CHEM 3053	Survey of Organic Chemistry or Organic Chemistry I	3
CHEM 3012	Survey of Organic Chemistry Laboratory (If taking CHEM 3013)	2
MICR 3033	Cell and Molecular Biology	3
MICR 4001	Professional Transitions in Microbiology and Cell and Molecular Biology	1
General Education courses		6
Hours		15
Junior		
Fall		
BIOL 3023 or ANSI 3423	General Genetics or Animal Genetics	3
MICR 3223	Advanced Microbiology	3
CHEM 3153 or BIOC 3653	Organic Chemistry II or Survey of Biochemistry	3
MICR 4012	Molecular Microbiology Laboratory I (Fall only)	2
College and Elective courses		4
Hours		15
Spring		
BIOC 3653 or BIOC 3713	Survey of Biochemistry or Biochemistry I	3
PHYS 1114	College Physics I (LN)	4
MICR 3253	Immunology (Spring only)	3

Upper-division MICR course or CHEM 3112	2
College and Elective courses	3
Hours	
15	
Senior	
Fall	
Upper-Division MICR course or BIOC 3813	3
MICR 4253	Concepts in Medical Genetics (Fall only)
Upper-division MICR course	5
College and Elective courses	4
Hours	
15	
Spring	
MICR 4112	Molecular Microbiology Capstone
MICR 4233	Advanced Cell and Molecular Biology
College and Elective courses	10
Hours	
15	
Total Hours	
120	

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Speak with academic advisor about saving General Education electives and Humanities (H) for Upper-division courses with International (I) and Diversity (D) dimensions.