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 1813	Preparation for Calculus (Q)	3
BIOL 1113 & BIOL 1111 or BIOL 1114	Introductory Biology (N) or Introductory Biology (LN)	4
MICR 1211	First Year Microbiology Laboratory Experience (elective)	1
General Education courses		7
	Hours	**15**
Spring		
CHEM 1314	Chemistry I (LN)	4
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	5
MATH 2144 or STAT 2013	Calculus I (Q) or Elementary Statistics (Q)	4
General Education courses		3
	Hours	**16**
Sophomore		
Fall		
MICR 3033	Cell and Molecular Biology	3
CHEM 1515	Chemistry II (LN)	5
General Education courses		6
	Hours	**14**
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
PHYS 1114	College Physics I (LN)	4
Major, General Education, and Elective courses		6
	Hours	**15**
Junior		
Fall		
MICR 4001	Professional Transitions in Microbiology and Cell and Molecular Biology	1
MICR 4012	Molecular Microbiology Laboratory I (Fall only)	2
BIOC 3653 or CHEM 3153	Survey of Biochemistry or Organic Chemistry II	3
BIOL 1604 or BIOL 3204 or PBIO 1404	Animal Biology or Physiology or Plant Biology (LN)	4
Major, General Education, and Elective courses		6
	Hours	**16**
Spring		
MICR 4233	Advanced Cell and Molecular Biology (Spring only)	3
MICR 4112	Molecular Microbiology Capstone (Spring only)	2
BIOL 3023 or ANSI 3423	General Genetics or Animal Genetics	3
Major, General Education, and Elective courses, or BIOC 3653		7
	Hours	**15**
Senior		
Fall		
MICR 4253 or MICR 4263	Concepts in Medical Genetics (Fall only) [2] or Microbial Genetics: from Genes to Genomes	3
General education, Major, and Elective courses		12
	Hours	**15**
Spring		
MICR 3223	Advanced Microbiology	3
Major, General Education, and Elective courses		11
	Hours	**14**
	Total Hours	**120**

1

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

2

MICR 4263 offered Spring only