

# 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
<b>Freshman</b>		
<b>Fall</b>		
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 (elective)	1
General Education courses		7
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 1314	Chemistry I (LN)	4
MICR 2123 & MICR 2132	Introduction to Microbiology and Introduction to Microbiology Laboratory	5
General Education courses		6
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
MICR 3033	Cell and Molecular Biology	3
CHEM 1515	Chemistry II (LN)	5
General Education courses		6
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
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
<b>Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
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
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
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
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MICR 3223	Advanced Microbiology	3
MICR 4253	Concepts in Medical Genetics (Fall only)	3
or General Education course		
General education and Elective courses		9
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MICR 3253	Immunology (Spring only)	3
MICR 4263	Microbial Genetics: from Genes to Genomes (Spring only)	3
or General Education course		
Major, General Education, and Elective courses		9
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

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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.