

# MICROBIOLOGY/CELL & MOLECULAR BIOLOGY: PRE-MEDICAL PROFESSIONAL, 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	1
General Education courses		7
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 1314	Chemistry I (LN)	4
BIOL 1604 or PBIO 1404	Animal Biology or Plant Biology (LN)	4
General Education courses		7
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 1515	Chemistry II (LN)	5
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
General Education courses		5
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 3053	Organic Chemistry I	3
MICR 3033	Cell and Molecular Biology	3
BIOL 3204	Physiology	4
General Education courses		5
<b>Hours</b>		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
MICR 3223	Advanced Microbiology	3
PHYS 1114	College Physics I (LN)	4
College and Elective courses		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
BIOC 3653 or BIOC 3713	Survey of Biochemistry or Biochemistry I	3
BIOL 3023 or ANSI 3423	General Genetics or Animal Genetics	3
MICR 4053	Pathogenic Microbiology	3
MICR 4001	Professional Transitions in Microbiology and Cell and Molecular Biology	1

PHYS 1214	College Physics II (LN)	4
College and Elective courses		1
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
MICR 4012	Molecular Microbiology Laboratory I	2
MICR 4253	Concepts in Medical Genetics (Fall only)	3
Major, College, and Elective courses (Recommend BIOC 3813)		10
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MICR 3253	Immunology	3
MICR 4112	Molecular Microbiology Capstone	2
MICR 4233	Advanced Cell and Molecular Biology	3
College and Elective courses		7
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>