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
Freshman Fall		
	Oella va Alvakov (A)	0
MATH 1513	College Algebra (A)	3
BIOL 1113 & BIOL 1111	Introductory Biology (N) or Introductory Biology (LN)	4
or BIOL 1114	of introductory biology (EIV)	
MICR 1211	First Year Microbiology Laboratory Experience	1
General Education course	s	7
	Hours	15
Spring		
MICR 2123	Introduction to Microbiology	5
& MICR 2132	and Introduction to Microbiology Laboratory	
CHEM 1314	Chemistry I (LN)	4
General Education course	s	6
	Hours	15
Sophomore		
Fall		
MICR 3033	Cell and Molecular Biology	3
CHEM 1515	Chemistry II (LN)	5
General Education course	s	6
	Hours	14
Spring		
MICR 4233	Advanced Cell and Molecular Biology (Spring only)	3
CHEM 3053	Organic Chemistry I	3
PHYS 1114	College Physics I (LN)	4
General Education and Ele	ective courses	6
	Hours	16
Junior		
Fall		
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
PHYS 1214	College Physics II (LN)	4
General Education and Ele	ective courses	6
	Hours	15
Spring		
BIOC 3653 or BIOC 3713	Survey of Biochemistry or Biochemistry I	3
BIOL 3204	Physiology	4
BIOL 3023	General Genetics	3
or ANSI 3423	or Animal Genetics	
MICR 4001 or UNIV 3511	Professional Transitions in Microbiology and Cell and Molecular Biology or Health Profession School Preparation	1

	Hours	14
Senior		
Fall		
MICR 4012	Molecular Microbiology Laboratory I (Fall only)	2
MICR 3223	Advanced Microbiology	3
or MICR 4253 or MICR 3143 or MICR 3553 or MICR 4023 or MICR 4053 or MICR 4123 or MICR 4203 or MICR 4263 or MICR 4423 or MICR 4423	Concepts in Medical Genetics 1,2 or Medical Mycology or Foundations of Cancer or Microbiomes in Human Health and the Environment or Pathogenic Microbiology or Virology or Bioinformatics or Microbial Genetics: from Genes to Genomes or Antibiotics and Antibiotic Resistance or Microbial Genomics and Bioinformatics	\$
Major, College, and Ele	ctive courses or BIOC 3813	8
	Hours	10
Spring		
MICR 3253	Immunology (Spring only)	3
MICR 4112	Molecular Microbiology Capstone (Spring only)	2
or MICR 4263 or MICR 3143 or MICR 3553 or MICR 4023 or MICR 4053 or MICR 4123 or MICR 4203 or MICR 4253 or MICR 4423 or MICR 4443	Microbial Genetics: from Genes to Genomes 1,2 or Medical Mycology or Foundations of Cancer or Microbiomes in Human Health and the Environment or Pathogenic Microbiology or Virology or Bioinformatics or Concepts in Medical Genetics or Antibiotics and Antibiotic Resistance or Microbial Genomics and Bioinformatics	;
BIOL 1604 or BIOL 3214	Animal Biology or Human Anatomy	4
General Education or E	Elective courses	3
	Hours	15

The following courses are offered only in Fall semesters: MICR 3143 (of odd years), MICR 4023, MICR 4123, MICR 4203, MICR 4253, MICR 4423.

2

The following courses are offered only in Spring semesters: MICR 4053, MICR 4263, MICR 4543.