


Bachelor of Science MICROBIOLOGY Pre-Professional Graduation MAP

This is a suggested plan. Meet with an academic advisor to create a specific plan that best fits your academic needs. Remember, taking an average of 15 credit hours per semester facilitates timely graduation.



Catalog Year: 2020-2021

NAME: _____

	Course	Credit Hour	Semester Offered	Milestones & Notes
Freshman (Semester 1)				
	ENGL 1010 EN - Introductory College Writing	3	Fall/Spring/ Summer	<ul style="list-style-type: none">• CHEM 1210: Prerequisite MATH 1010 and CHEM 1200 or approval of Chemistry department.• CHEM 1210: Pre or co-requisite MATH 1050 OR MATH 1080.• *May opt to complete LIBS 1704 course (1 credit hour) instead of exam. However, competency exam is recommended.
	MATH 1050 QL - College Algebra	4	Fall/Spring/Summer	
	CHEM 1210 PS - Principles of Chemistry I w/Lab	5	Fall/Spring/Summer	
	GE American Institutions (AI) Course	3	Fall/Spring/Summer	
	*LIBS 1504 - Information Literacy Competency Exam	1	Fall/Spring/Summer	
	Total Semester Credits	16		
Freshman (Semester 2)				
	ENGL 2010 EN - Intermediate College Writing	3	Fall/ Spring/Summer	<ul style="list-style-type: none">• ENGL 2010: Prerequisite ENGL 1010 grade of “C” or higher.• ENGL 2010 requires grade of “C” or higher.• CHEM 1220: Prerequisite MATH 1050 OR MATH 1080 and CHEM 1210.
	MICR 2054 LS - Principles of Microbiology	4	Fall/Spring/ Summer	
	CHEM 1220 - Principles of Chemistry II w/Lab	5	Fall/Spring/Summer	
	SOC 1010 SS/DV - Introduction to Sociology	3	Fall/Spring/Summer	
	Total Semester Credits	15		
Freshman (Optional)				
				<ul style="list-style-type: none">• Summer semester courses will reduce credit load during Fall and Spring semesters.
	Total Semester Credits			
Sophomore (Semester 3)				
	CHEM 2310/2315 - Organic Chemistry I & Lab	5	Fall/Spring/Summer	<ul style="list-style-type: none">• MICR 3053 prerequisites: MICR 2054, CHEM 1210, and MATH 1050 or 1080 or 1210.• ZOOL 1110 fills Micro Life Science Elective requirement. This course is also offered in select Summers.• ZOOL 1110 required as prerequisite for ZOOL 3200 Cell Biology and 3300 Genetics.
	MICR 3053 - Microbiological Procedures	3	Fall/Spring	
	ZOOL 1110 LS - Principles of Zoology	4	Fall/Spring	
	MATH 1060 - Trigonometry -or- MATH 1080 QL - Pre-Calculus	3-5	Fall/Spring/Summer	
	Total Semester Credits	15-17		
Sophomore (Semester 4)				
	CHEM 2320/2325 - Organic Chemistry II & Lab	5	Fall/Spring/Summer	<ul style="list-style-type: none">• ZOOL 2100 or ZOOL 2200 fills Micro Life Science Elective requirement.
	ZOOL 2100 - Human Anatomy -or- ZOOL 2200 LS - Human Physiology	4	Fall/Spring Fall/Spring/Summer	
	ZOOL 3200 - Cell Biology	4	Fall/Spring	
	GE Humanities Course	3	Fall/Spring/Summer	
	Total Semester Credits	16		
Sophomore (Optional)				
	*MATH 1210 - Calculus I	4	Fall/Spring/Summer	<ul style="list-style-type: none">• *MATH 1210, is required by some professional schools.• Trigonometry, MATH 1060, is the minimum requirement for professional and graduate programs, Calculus, Math 1210, is recommended.• MATH 1080 meets QL and Trigonometry.• MICR 4890 does not count as MICR elective credit. Must have instructor approval prior to registering.
	MICR 4890 INT - Cooperative Work Experience; Physician or Dental Shadowing	1-5	Fall/Spring/Summer	
	Total Semester Credits	5-9		

<input checked="" type="checkbox"/>	Course	Credit Hours	Semester Offered	Milestones & Notes
Junior (Semester 5)				
	PHYS 2010/2019 PS - College Physics I & Lab	5	Fall/Spring/Summer	<ul style="list-style-type: none"> Optional PHYS 2210/2220 – Physics for Scientists and Engineers. Requires MATH 1210/MATH 1220 as pre or co-requisite. Students must complete CHEM 3070 and 3075 (Biochemistry Lab).
	ZOOL 2100 - Human Anatomy - or - ZOOL 2200 LS - Human Physiology	4	Fall/Spring Fall/Spring/Summer	
	MICR 3254 - Immunology	4	Fall	
	CHEM 3070/3075 - Biochemistry I & Lab	4	Fall/Spring	
	Total Semester Credits	17		
Junior (Semester 6)				
	PSY 3600 - Statistics in Psychology - or - QUAN 2600 - Business Statistics I <i>Other stats classes may suffice, however check with your advisor first!</i>	3	Fall/Spring/Summer	<ul style="list-style-type: none"> <i>Strongly recommended to take at least 1 Statistics Course.</i> MATH 1040 or MATH 2410 may also apply towards statistics and are prerequisites for professional schools. Check with your advisor.
	PSY 1010 SS - Introductory Psychology	3	Fall/Spring/Summer	
	PHYS 2020/2029 - College Physics II & Lab	5	Fall/Spring	
	ZOOL 3300 - Genetics	4	Fall/Spring	
	GE Creative Arts Course	3	Fall/Spring/Summer	
	Total Semester Credits	18		
Junior (Optional)				
	MICR 4800 - Directed Research	1-2	Fall/Spring/Summer	<ul style="list-style-type: none"> Directed Research requires instructor approval.
	Total Semester Credits	1-2		
Senior (Semester 7)				
	MICR 4054 - Microbial Physiology	4	Fall	<ul style="list-style-type: none"> MICR 3154 prerequisites: MICR 2054 and CHEM 1210. MICR 4054 prerequisites: MICR 2054, CHEM 1220 and CHEM 2310/2315. Completion or concurrent in CHEM 3070/3075.
	MICR 3154 - Microbial Ecology	4	Fall/Spring	
	MICR 3403 - Tropical Diseases	3	Fall	
	GE Humanities or Creative Arts Course	3	Fall/Spring/Summer	
	Total Semester Credits	14		
Senior (Semester 8)				
	MICR 4154 - Microbial Genetics	4	Spring	<ul style="list-style-type: none"> MICR 4154 prerequisites: MICR 2054 and CHEM 2310/2315. Completion or concurrent in CHEM 3070/3075. 20 credits of MICR electives required, see catalog for listing of options.
	MICR 3305 - Medical Microbiology	5	Spring	
	ZOOL 3720 - or - ZOOL 4210 - or - ZOOL 4300 (see options below)	3-4	Depends on course	
	MICR Major Electives (choose from categories A, B & C)	3-4	Depends on course	
	Total Semester Credits	15-17		
Senior (Optional)				
	HIST 4810 - History of Medicine	3	Fall	<ul style="list-style-type: none"> NEUR 3850, prerequisite NEUR 2050 or PHYS 2730. Recommended supplemental FUN courses; discuss your options with an advisor.
	MICR 1810 - Life in Medicine	1	Spring	
	MICR 4554 - Virology	4	Spring	
	NEUR 3850 - Clinical Neuroscience	3	Spring (Odd years)	
	Total Semester Credits	11		
	TOTAL BACHELOR CREDITS	132-141		

Gen Ed Breadth Requirements (do not duplicate departments)

<input type="checkbox"/> HU	<input type="checkbox"/> CA	<input type="checkbox"/> HU or CA
<input type="checkbox"/> SS	<input type="checkbox"/> SS	
<input type="checkbox"/> PS	<input type="checkbox"/> LS	<input type="checkbox"/> PS or LS
<input type="checkbox"/> DV (Double dip with other Gen Ed courses)		

Avoid misadvisement! Consult your academic advisor (weber.edu/advisors), the WSU Catalog (weber.edu/catalog), and your CatTracks degree evaluation (log into your eWeber Student Portal).

This plan outlines a degree in Microbiology customized for students interested in medical professional or graduate school. Requirements vary by program and should be discussed with the Microbiology or your Pre-Professional advisor.

Major GPA of 2.0 or higher required for graduation.

Students completing this plan will also earn a minor in Chemistry.

Most medical schools do not count AP credit earned in high school as a substitute for their prerequisite courses.

If you are interested in the Medical Microbiology Emphasis, Microbiology BS, please talk to a Microbiology advisor.