

Major Checklist for B.S. Degree in Microbiology: Sample Four-Year Plan

	FALL	WINTER	SPRING
FRESHMAN			
Math	MTH 251 4 CR (F,W,SP,SU) or MTH 227 4 CR (W,SP)	MTH 252 4 CR (F,W,SP,SU) or MTH 228 4 CR (SP,F)	
General Chem/Microbiol	CH 231 / CH 261 4+1 CR (F,W,SU) MB 110 1 CR (F)	CH 232 / CH 262 4+1 CR (W,SP,SU)	CH 233 / CH 263 4+1 CR (SP,SU)
Baccalaureate Core	WR 121 4 CR F (A-G); W (H-N); SP (O-Z) (Must achieve C- or better) COMM 111 , 114 , 211 , or 218 3 CR (F,W,SP,SU) HHS 231 2 CR (F,W,SP,SU) and PAC 1 CR (F,W,SP,SU)		
SOPHOMORE			
Organic Chemistry	CH 331 4 CR (F,W,SU)	CH 332 4 CR (W,SP,SU)	CH 337 4 CR (F,SP,SU)
Microbiology			MB 290 1 CR (SP)
Biology	BI 221 4 CR (F,SU)	BI 222 4 CR (W,SU)	BI 223 4 CR (SP,SU)
Statistics	ST 351 4 CR (F,W,SP,SU)		
Baccalaureate Core	Select from list at https://catalog.oregonstate.edu/earning-degrees/bcc/ (see back)		
JUNIOR			
Biochem, Cell Biology, Chemistry	BB 450 4 CR (F,W,SU)	BB 451 3 CR (W,SP,SU)	CH 324 ¹ 4 CR (F,W,SP,SU) BB 314 4 CR (F,W,SP,SU)
Physics	PH 201 5 CR (F,SU)	PH 202 5 CR (W,SU)	PH 203 5 CR (SP,SU)
Microbiology	MB 302 3 CR (F,W,SP,SU) and then →Select from major classes below MB 303 2 CR (F,W,SP,SU)		
MAJOR CLASSES: Junior/Senior: 400 level classes can be taken before 300-level classes. Check prerequisites for each class.			
REQUIRED COURSES MUST take all 4 classes; can be taken as a junior or senior	MB 490 2 CR (F) Microbiology Capstone	MB 310 3 CR (W) Bacterial Molecular Genetics MB 311 3 CR (W) Molecular Microbiology Lab	MB 312 3 CR (SP) Bacterial Physiology
REQUIRED LAB Pick 2 CR of 400-level MB Lab (check prereqs)	MB 417 2 CR (F) Immunology Lab	MB 441 2 CR (W) Food Micro Lab	MB 422 2 CR (SP) Aquatic Micro Lab
Choose any additional 18 CR of upper- division MB lectures listed here [can include additional 2 CR labs (above) or courses listed below]	MB 416 3 CR (F) Immunology MB 434 3 CR (F) Virology MB 480 3 CR (F Ecampus) General Parasitology BOT 350 4 CR (F on-campus) Plant Pathology BOT 461 4 CR (F) Mycology	MB 420 3 CR (W, odd years: W 2023) Microbial Genome Evolution & Biodiversity MB 440 3 CR (W) Food Microbiology MB 448 3 CR (W, even years: W 2024) Microbe-Environment Interactions MB 456 3 CR (W) Microbial Genetics & Biotechnology MB 480 3 CR (W on-campus) General Parasitology MB 491 3 CR (W) Fish Diseases in Conserv. Biol. & Aquaculture BOT 350 4 CR (W Ecampus) Plant Pathology	MB 314 3 CR (SP) Aquatic Microbiology MB 430 3 CR (SP) Bacterial Pathogenesis MB 436 3 CR (SP) Human Microbiome MB 479 3 CR (SP) Fermentation Microbiology BOT 350 4 CR (SP Ecampus) Plant Pathology
400-level Experiential Learning (optional; counts toward 18 CR of 400 level MB)	MB 401/403/405/410 1-3 CR (F,W,SP,SU) MB 406 Teaching Assistant 1-3 CR (F,W,SP,SU) 3 CR of MB 406 and 3 CR of 401/403/405/410 can be applied to the 18 CR of 400-level microbiology lecture credit requirement. Additional credits will count as general elective credits.		
¹ CH 324 is a department requirement; CH 390 is not an acceptable substitution. CH 324 must be taken for a letter grade for a chemistry minor. If student is only earning the micro major (no chemistry minor) CH 324 may be taken S/U.			

Advising Checklist for OSU Baccalaureate Core Requirements

Students must complete 180 hours to graduate.

Fulfilling the back core and MB requirements adds up to ~ 150 CR.

SKILLS		
<input type="checkbox"/> FITNESS	3 CR	Must take lecture (2 CR) and Lab (1 CR) Lecture: HHS 231; Labs: 241,242,243,244,245,246,247,248; MS 130 or any PAC course
<input type="checkbox"/> MATH ¹	4 CR	Part of major requirements
<input type="checkbox"/> WRITING I ²	3 CR	WR 121
<input type="checkbox"/> WRITING II ³	3 CR	HC 199; PHL 121; WR 201,214,222,224,241,303, 323,324,327,330,341,362
<input type="checkbox"/> SPEECH ¹	3 CR	COMM 111,114,211,218
WRITING INTENSIVE COURSE (PART OF MAJOR REQUIREMENTS)		
<input type="checkbox"/> WIC	3 CR	MB 311
PERSPECTIVES (NO MORE THAN 2 CLASSES FROM THE SAME DEPARTMENT)		
<input type="checkbox"/> Biological Sciences	4 CR	Part of major requirements
<input type="checkbox"/> Physical Science	4 CR	Part of major requirements
<input type="checkbox"/> One additional course in biological or physical science	4 CR	Part of major requirements
<input type="checkbox"/> Cultural Diversity (CD)	3 CR	Select from list
<input type="checkbox"/> Literature and the Arts (LA)	3 CR	Select from list
<input type="checkbox"/> Social Processes and Institutions (SPI)	3 CR	Select from list
<input type="checkbox"/> Western Culture (WC)	3 CR	Select from list
DIFFERENCE, POWER, AND DISCRIMINATION		
<input type="checkbox"/> Difference, Power, and Discrimination	3 CR	Select from list
SYNTHESIS (UPPER DIVISION: MUST BE TAKEN FROM DIFFERENT DEPARTMENTS)		
<input type="checkbox"/> Contemporary Global Issues (CGI)	3 CR	Select from list
<input type="checkbox"/> Science, Technology & Society	3 CR	Select from list
¹ Speech course and Math 111 or above must be satisfactorily completed within the first 45 hours of OSU coursework. ² WR I (WR 121) must be completed with at least a C- grade within the first 45 hours of OSU coursework. ³ WR II must be satisfactorily completed within the first 90 hours of OSU coursework.		