

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) or an additional (2 nd) 400-level MB lab 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 (or a 2 nd 400-level MB lab) is an MB major requirement; CH 324 must be taken for a letter grade for a chemistry minor. If a student is only earning the micro major (no chemistry minor) CH 324 may be taken S/U. 400-level MB labs must be taken for a grade. If CH 324 is not taken, the student will have to take an additional CH class to get the CH minor.			

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.		