

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

	FALL	WINTER	SPRING
FRESHMAN			
Orientation	MB 110 1 CR (F)		
Math	MTH 251 4 CR (F,W,SP,SU) or MTH 227 4 CR	MTH 252 4 CR (F,W,SP,SU) or MTH 228 4 CR	
Chemistry	CH 231/261 4+1 CR (F,W,SU)	CH 232/262 4+1 CR (W,SP,SU)	CH 233/263 4+1 CR (SP,SU)
Biology	BI 211 4 CR (F,SU)	BI 212 4 CR (W,SU)	BI 213 4 CR (SP,SU)
Baccalaureate Core	WR 121 3 CR F (A-G); W (H-N); SP (0-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 HHS 241 Lab 1 CR or PAC 1 CR (F,W,SP,SU)		
SOPHOMORE			
Chemistry	CH 331 3 CR (F,W,SU)	CH 332 4 CR (W,SP,SU)	CH 337 4 CR (F,SP,SU)
Physics (can also be taken junior year)	PH 201 5 CR (F,SU)	PH 202 5 CR (W,SU)	PH 203 5 CR (SP,SU)
Biochemistry		BB 314 4 CR (F,W,SP,SU)	
Microbiology			MB 302 3 CR (F,W,SP,SU) MB 303 2 CR (F,W,SP,SU)
Statistics	ST 351 4 CR (F,W,SP,SU)		
JUNIOR			
Biochem & Biophys	BB 450 4 CR (F,W,SP,SU)	BB 451 3 CR (F,W,SP,SU)	
Chemistry			CH 324 4 CR (F,W,SP,SU) ¹
Microbiology		MB 310 3 CR (W) MB 311 3 CR (W,SP)	MB 312 3 CR (SP)
SENIOR			
REQUIRED	MB 490 2 CR Microbiology Capstone (F,W)		
18 Credits 400-Level MB lectures (can include credits listed in the special credits category or additional 400-level MB labs)	MB 416 3 CR (F) (Immunology) MB 420 3 CR (F) (Microbial Diversity) BOT 350 4 CR (F,SP) (Plant Pathology) BOT 461 5 CR (F) (Mycology)	MB 440 3 CR (W) (Food Micro) MB 448 3 CR (W) (Microbial Ecology) MB 456 3 CR (W) (Microbial Biotechnology) MB 480 3 CR (W) (General Parasitology) ²	MB 430 3 CR (SP) (Bacterial Pathogenesis) MB 434 3 CR (SP) (Virology) MB 436 3 CR (SP) (The Human Microbiome) MB 479 3 CR (SP) (Fermentation Micro) MB 491 3 CR (SP) (Fish Diseases)
400-level MB Lab 2 CR (one-required)	MB 417 2 CR (F) Immunology Lab	MB 441 2 CR (W) (Food Micro Lab)	MB 422 2 CR (SP) Aquatic Micro Lab MB 435 2 CR (SP) Path Lab MB 496 2 CR (SP) Fish Disease Lab
400-level Special Credits	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 requirements. Additional credits will count as general elective credits.		
<p>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.</p> <p>² MB 480 is taught odd years on campus (e.g., winter 2019,2021,2023) and as an Ecampus course even years (e.g., winter 2018,2020,2022).</p>			

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.		