

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

	FALL	WINTER	SPRING
<b>FRESHMAN</b>			
Orientation	<a href="#">MB 110</a> 1 CR (F)		
Math	<a href="#">MTH 251</a> 4 CR (F,W,SP,SU) or <a href="#">MTH 227</a> 4 CR	<a href="#">MTH 252</a> 4 CR (F,W,SP,SU) or <a href="#">MTH 228</a> 4 CR	
Chemistry	<a href="#">CH 231/261</a> 4+1 CR (F,W,SU)	<a href="#">CH 232/262</a> 4+1 CR (W,SP,SU)	<a href="#">CH 233/263</a> 4+1 CR (SP,SU)
Biology	<a href="#">BI 211</a> 4 CR (F,SU)	<a href="#">BI 212</a> 4 CR (W,SU)	<a href="#">BI 213</a> 4 CR (SP,SU)
Baccalaureate Core	<a href="#">WR 121</a> 3 CR F (A-G); W (H-N); SP (0-Z) (Must achieve C- or better) <a href="#">COMM 111</a> , <a href="#">114</a> , <a href="#">211</a> , or <a href="#">218</a> 3 CR (F,W,SP,SU) <a href="#">HHS 231</a> 2 CR (F,W,SP,SU) and <a href="#">HHS 241</a> Lab 1 CR or <a href="#">PAC</a> 1 CR (F,W,SP,SU)		
<b>SOPHOMORE</b>			
Chemistry	<a href="#">CH 331</a> 3 CR (F,W,SU)	<a href="#">CH 332</a> 4 CR (W,SP,SU)	<a href="#">CH 337</a> 4 CR (F,SP,SU)
Physics (can also be taken junior year)	<a href="#">PH 201</a> 5 CR (F,SU)	<a href="#">PH 202</a> 5 CR (W,SU)	<a href="#">PH 203</a> 5 CR (SP,SU)
Biochemistry		<a href="#">BB 314</a> 4 CR (F,W,SP,SU)	
Microbiology			<a href="#">MB 302</a> 3 CR (F,W,SP,SU) <a href="#">MB 303</a> 2 CR (F,W,SP,SU)
Statistics	<a href="#">ST 351</a> 4 CR (F,W,SP,SU)		
<b>JUNIOR</b>			
Biochem & Biophys	<a href="#">BB 450</a> 4 CR (F,W,SP,SU)	<a href="#">BB 451</a> 3 CR (F,W,SP,SU)	
Chemistry			<a href="#">CH 324</a> 4 CR (F,W,SP,SU) <sup>1</sup>
Microbiology		<a href="#">MB 310</a> 3 CR (W) <a href="#">MB 311</a> 3 CR (W,SP)	<a href="#">MB 312</a> 3 CR (SP)
<b>SENIOR</b>			
<b>REQUIRED</b>	<b>MB 490 2 CR Microbiology Capstone (F,W)</b>		
18 Credits 400-Level MB lectures (can include credits listed in the special credits category or additional 400-level MB labs)	<a href="#">MB 416</a> 3 CR (F) (Immunology) <a href="#">MB 420</a> 3 CR (F) (Microbial Diversity) <a href="#">BOT 350</a> 4 CR (F,SP) (Plant Pathology) <a href="#">BOT 461</a> 5 CR (F) (Mycology)	<a href="#">MB 440</a> 3 CR (W) (Food Micro) <a href="#">MB 448</a> 3 CR (W) (Microbial Ecology) <a href="#">MB 456</a> 3 CR (W) (Microbial Biotechnology) <a href="#">MB 480</a> 3 CR (W) (General Parasitology) <sup>2</sup>	<a href="#">MB 430</a> 3 CR (SP) (Bacterial Pathogenesis) <a href="#">MB 434</a> 3 CR (SP) (Virology) <a href="#">MB 436</a> 3 CR (SP) (The Human Microbiome) <a href="#">MB 479</a> 3 CR (SP) (Fermentation Micro) <a href="#">MB 491</a> 3 CR (SP) (Fish Diseases)
400-level MB Lab 2 CR (one-required)	<a href="#">MB 417</a> 2 CR (F) Immunology Lab	<a href="#">MB 441</a> 2 CR (W) (Food Micro Lab)	<a href="#">MB 422</a> 2 CR (SP) Aquatic Micro Lab <a href="#">MB 435</a> 2 CR (SP) Path Lab <a href="#">MB 496</a> 2 CR (SP) Fish Disease Lab
400-level Special Credits	<a href="#">MB 401/403/405/410</a> 1-3 CR (F,W,SP,SU) <a href="#">MB 406</a> Teaching Assistant 1-3 CR (F,W,SP,SU) 3 CR of <a href="#">MB 406</a> and 3 CR of <a href="#">401/403/405/410</a> can be applied to the 18 CR of 400-level microbiology lecture credit requirements. Additional credits will count as general elective credits.		
<p><sup>1</sup> 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><sup>2</sup> 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 <sup>1</sup>	4 CR	Part of major requirements
<input type="checkbox"/> WRITING I <sup>2</sup>	3 CR	WR 121
<input type="checkbox"/> WRITING II <sup>3</sup>	3 CR	HC 199; PHL 121; WR 201,214,222,224,241,303, 323,324,327,330,341,362
<input type="checkbox"/> SPEECH <sup>1</sup>	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"/> <a href="#">Cultural Diversity (CD)</a>	3 CR	Select from list
<input type="checkbox"/> <a href="#">Literature and the Arts (LA)</a>	3 CR	Select from list
<input type="checkbox"/> <a href="#">Social Processes and Institutions (SPI)</a>	3 CR	Select from list
<input type="checkbox"/> <a href="#">Western Culture (WC)</a>	3 CR	Select from list
DIFFERENCE, POWER, AND DISCRIMINATION		
<input type="checkbox"/> <a href="#">Difference, Power, and Discrimination</a>	3 CR	Select from list
SYNTHESIS (UPPER DIVISION: MUST BE TAKEN FROM DIFFERENT DEPARTMENTS)		
<input type="checkbox"/> <a href="#">Contemporary Global Issues (CGI)</a>	3 CR	Select from list
<input type="checkbox"/> <a href="#">Science, Technology &amp; Society</a>	3 CR	Select from list
<sup>1</sup> Speech course and Math 111 or above must be satisfactorily completed within the first 45 hours of OSU coursework. <sup>2</sup> WR I (WR 121) must be completed with at least a C- grade within the first 45 hours of OSU coursework. <sup>3</sup> WR II must be satisfactorily completed within the first 90 hours of OSU coursework.		