

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

	FALL	WINTER	SPRING
<b>FRESHMAN</b>			
Mathematics	MTH 251 4 cr F,W,Sp,Su	MTH 252 4 cr F,W,Sp,Su or MTH 268	Intentionally blank
General 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 Microbiology	BI 211 4 cr F,Su MB 110 1 cr F	BI 212 4 cr W,Su	BI 213 4 cr Sp,Su
Baccalaureate core courses	WR 121 <sup>1</sup> , 3 cr, (must achieve C- or better)– term dictated by alpha listing; COMM 111,114,218 HHS 231 2 cr and HHS/PAC Lab , 1 cr		
<b>SOPHOMORE</b>			
Organic Chemistry	CH 331 4 cr F,W,Su	CH 332 4 cr W,Sp,Su	CH 337 4 cr F,Sp,Su
Statistics, Biology, & Microbiology	ST 351 4 cr F,W,Sp,Su	BI 314 4 cr F,W,Sp,Su	MB 302 3 cr F,W,Sp,Su MB 303 2 cr F,W,Sp,Su
<b>JUNIOR</b>			
Physics (recommended soph. year if math reqs are complete)	PH 201 5 cr F,Su	PH 202 5 cr W,Su	PH 203 5 cr Sp,Su
Biochemistry/ Chemistry	BB 450 4 cr F,W,Su	BB 451 3 cr W,Sp,Su	CH 324 <sup>2</sup> 4 cr F,W,Sp,Su
Microbiology	Intentionally blank	MB 310 3 cr Bacterial Molecular Genetics MB 311 3 cr W,Sp Molecular Micro Lab	MB 312 3 cr Bacterial Physiology
<b>SENIOR</b>			
Required	MB 490 2 cr Microbiology Capstone		
18 credits 400 level MB Lectures (can include courses listed in the two sections below)	MB 416 3 cr (Immunology) MB 417 2 cr (Immunology lab) MB 420 3 cr (Microbial Diversity) BOT 350 4 cr (Plant Pathology) BOT 461 5 cr (Mycology)	MB 440 3 cr (Food Micro) MB 456 3 cr (Microbial Biotechnol) MB 480 <sup>3</sup> 3 cr (Gen Parasitology)	MB 430 3 cr (Bact Pathogenesis) MB 434 3 cr (Virology) MB 448 3 cr (Microbial Ecology) MB 479 3 cr (Fermentation Micro) MB 491 4 cr (Fish Diseases)
2 credits; 400-Level MB Lab	MB 417, 2 cr Immunology Lab	MB 441, 2 cr Food Micro Lab	MB 435, 2 cr Pathogenic Microbes Lab
400-Level Special Projects	MB 401/403/405/410 (see above for descriptions) 1-3 cr, F,W,Sp/Su MB 406, Teaching Assistant, 1-3 cr, F/W/Sp/Su <i>3 cr of 406 and 3 cr of 401/403/405/410 can be applied to the 18 credits of 400-level microbiology lecture credit requirements. Additional credits in these areas will count as elective credit.</i>		
<sup>1</sup> WR 121: Fall (A-G); Winter (H-N), Spring (O-z) <sup>2</sup> CH 324 is a departmental requirement; CH 390 is not an acceptable substitution. To earn a chemistry minor, CH 324 must be taken for a letter grade. If a student is only earning the microbiology major (no chemistry minor) CH 324 may be taken S/U. <sup>3</sup> MB 480 is taught on-campus during odd years (e.g., winter 2015, 2017, 2019) and as an Ecampus course during even years (e.g., winter 2014,2016,2018).			