

## Projected Microbiology Course Offers

This is subject to change based upon staffing availability and enrollment numbers.

- Pre – and/or co – requisites

Course	Credits	Fall 24	Spring 25	Fall 25	Spring 26
<b>Required Courses</b>					
BCMB 3100 Introductory Biochemistry	4	+	+	+	+
<ul style="list-style-type: none"> <li>(CHEM 2211 or CHEM 2311H or CHEM 2411) and (CHEM 2211L or CHEM 2311L or CHEM 2411L) and (BIOL 1107 or BIOL 2107H)</li> </ul>					
BCMB 4020 Molecular Biology	4		+		+
<ul style="list-style-type: none"> <li>BCMB 4010/6010</li> </ul>					
MIBO 3500 – 3500L Introductory Microbiology and Lab I	4	+	+	+	+
<ul style="list-style-type: none"> <li>(CHEM 2211 or CHEM 2311H or CHEM 2411) and (CHEM 2211L or CHEM 2311L or CHEM 2411L) and (BIOL 1107 or BIOL 1107E or BIOL 2107H)</li> </ul>					
MIBO 3510L Introductory Microbiology Lab	3	+	+	+	+
<ul style="list-style-type: none"> <li>MIBO 3500L and (MIBO 3500 or MIBO 3500E or MIBO 3500H)</li> </ul>					
MIBO 4090/6090 Prokaryotic Biology	4	+	+	+	+
<ul style="list-style-type: none"> <li>MIBO 3500 or MIBO 3500E</li> </ul>					
GENE 3200 – 3200D Genetics	4	+	+	+	+
<ul style="list-style-type: none"> <li>BIOL 1107 or BIOL 1107E or BIOL 2107H</li> </ul>					
<b>Major I</b>					
MIBO 4600L/6600L Experimental Microbiology Laboratory	4		+		+
<ul style="list-style-type: none"> <li>[(MIBO 3500 or MIBO 3500E or MIBO 3500H) and MIBO 3500L] or permission of department</li> </ul>					
MIBO 4970R Faculty-Mentored Undergraduate Research II	1-6	+	+	+	+
<ul style="list-style-type: none"> <li>Permission of department</li> </ul>					

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<b>Major II</b>					
CBIO/MIBO/IDIS 4100/6100 - 4100D Immunology	4	+	+	+	+
• (BCMB 3100 or BCMB 3100E or BCMB 4010/6010 or BCMB 4020/6020) and (GENE 3200-3200D or GENE 3200H)					
EHSC/FDST/MIBO 4310/6310 - 4310L Environmental Microbiology	4		+		+
• MIBO 3000-3000L or MIBO 3500					
FDST/MIBO 4120/6120 - 4120L/6120L Food Fermentations	4	+		+	
• FDST 3000 or MIBO 3500 or MIBO 3500E or MIBO 3500H					
GENE 3210L Experimental Genetics	3	+		+	
• GENE 3200-3200D or GENE 3200H					
GENE 4520/6520 Genetics of Industrial Micro-Organisms	3		+		
• GENE 3200-3200D or GENE 3200H or MIBO 3500 or MIBO 3500E					
GENE 4240L Experimental Microbiome Genetics Lab	4	+		+	
• GENE 3200-3200D or GENE 3200H					
MARS(MIBO) 4620/6620 Microbial Ecology	4			+	
• MIBO 3500 or MIBO 3500E or permission of department					
MIBO(POPH) 4220/6220 or 4220S Pathogenic Bacteriology	3		+		+
• MIBO 3500 or MIBO 3500E					
MIBO 4300/6300 Genome Editing in Mammals, Plants, Insects, and Microbes	3	+		+	
• MIBO 3500 or MIBO 3500E					
MIBO 4600L/6600L Experimental Microbiology Lab	4		+		+
• [(MIBO 3500 or MIBO 3500E or MIBO 3500H) and MIBO 3500L] or permission of department					
MIBO 4700/6700 Medical Mycology	3		+		+
• BIOL 1108 or BIOL 1108H					
POPH(MIBO)(IDIS) 4650/6650 Introduction to Virology		+		+	
• Permission of department					

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Course	Credits	Fall 24	Spring 25	Fall 25	Spring 26
<b>Major III</b>					
<b>BCMB 3600 Genomics and Bioinformatics</b>	3		+		+
• BCMB(BIOL)(CHEM) 3100 or BCMB 4010/6010					
<b>BCMB 4030L/6030L Bioprocess Technology</b>	4	+	+	+	+
• (BIOL 1107 or BIOL 1107E or BIOL 1107H or BIOL 2107H) and (CHEM 1212L or CHEM 1312L or CHEM 1412L)					
<b>CRSS(MIBO) 4610/6610 - 4610L/6610L Soil Microbiology</b>	4	+	+	+	+
<b>CBIO 3400 Cell Biology</b>	4	+	+	+	+
• BCMB 3100 or BCMB 3100E or BCMB 3100H or BCMB 4010/6010, GENE 3200-3200D or GENE 3200H or GENE 3200E					
<b>CBIO 4500/6500 Medical Parasitology</b>	3	+			
• BIOL 1108-1108L					
<b>CBIO(PBIO) 4600/6600 Biology of Protists</b>	4		+		+
• BIOL 1104 or (BIOL 1108 and BIOL 1108L) or BIOL 2108L or (PBIO(BIOL) 1220 and PBIO(BIOL) 1220L)					
<b>ECOL(BIOL) 4150/6150 - 4150L/6150L Population Biology of Infectious Diseases</b>	4		+		+
• (BIOL 1104 or BIOL 1108-1108L or PBIO 1220) and (STAT 2000 or MATH 2200 or MATH 2250)					
<b>EHSC/FDST/MIBO 4310/6310 - 4310L Environmental Microbiology</b>	4		+		+
• MIBO 3000-3000L or MIBO 3500					
<b>GENE 4240L Experimental Microbiome Genetics Laboratory</b>	3	+		+	
• GENE 3200-3200D or GENE 3200H					
<b>MARS(MIBO) 4620/6620 Microbial Ecology</b>	4			+	
• MIBO 3500 or MIBO 3500E or permission of department					
<b>MIBO 4600L/6600L Experimental Microbiology Laboratory</b>	4		+		+
• [(MIBO 3500 or MIBO 3500E or MIBO 3500H) and MIBO 3500L] or permission of department					