

**Biology BS - Microbiology Concentration
Curriculum Map^{1,2}**

Assumes that student arrives ready for Calculus I (MAC 2311) and Statistical Methods (STA 2023).

Year 1 – Freshman

Fall		14	Prerequisites
BSC 1010C	General Biology I with Lab	4	
CHM 1045	General Chemistry I	3	MAC 1105 or MAC 1147 or MAC 2157 or ACU5 min. score of 066. Co-requisite CHM 1045L
CHM 1045L	General Chemistry I Lab	1	Co-requisite CHM 1045
ENC 1101	Composition I	3	
XXX XXXX	Gen. Ed. Social Science ³	3	

Spring		15	Prerequisites
BSC 1011	General Biology II	3	Co-requisite BSC 1011L
BSC 1011L	General Biology II Lab	1	Co-requisite BSC 1011
CHM 1046C	General Chemistry II	3	CHM 1045C (or CHM 1045 and CHM 1045L). Co-requisite CHM 1046L
CHM 1046L	General Chemistry II Lab	1	Co-requisite CHM 1046
MAC 2311	Calculus I	4	MAC 1105 or MAC 1147 or MAC 2157 or ACU5 min. score of 066
ENC 1102	Composition II	3	ENC 1101

Year 2 - Sophomore

Fall		16	Prerequisites
PCB 3023C	Cell Biology	3	BSC 1010C (or BSC 1010 and BSC 1010L) and CHM 1046C (or CHM 1046 and CHM 1046L)
OR	OR		
PCB 3063C	Genetics		BSC 1010C (or BSC 1010 and BSC 1010L) and BSC 1011 and BSC 1011L (or BSC 1011C) and CHM 1045C (or CHM 1045 and CHM 1045L)
CHM 2210	Organic Chemistry I	3	CHM 1046C (or CHM 1046 and 1046L). Co-requisite CHM 2210L
CHM 2210L	Organic Chemistry I Lab	1	Co-requisite CHM 2210
STA 2023	Statistical Methods	3	MAT 1033 or MAC 1105 or MAC 1147 or MAC 2233 or MGF 1107 or MGF 1106 or S02 min. score of 550 or A02 min. score of 24 or ACU4 min. score of 090
HUM 2510	Understanding Visual and Performing Arts	3	
XXX-XXXX	Gen Ed. Humanities ³	3	

Spring		16	Prerequisites
PCB 3023C	Cell Biology	3	BSC 1010C (or BSC 1010 and BSC 1010L) and CHM 1046C (or CHM 1046 and CHM 1046L)
OR	OR		
PCB 3063C	Genetics		BSC 1010C (or BSC 1010 and BSC 1010L) and BSC 1011 and BSC 1011L (or BSC 1011C) and CHM 1045C (or CHM 1045 and CHM 1045L)
PCB 3043C	General Ecology	3	BSC 1010C (or BSC 1010 and BSC 1010L) and BSC 1011 and BSC 1011L (or BSC 1011C)
XXX XXXX	Restricted Elective in Biology	3	Must meet course specific prerequisites
CHM 2211	Organic Chemistry II	3	CHM 2210C (or CHM 2210 and CHM 2210L). Co-requisite CHM 2211L
CHM 2211L	Organic Chemistry II Lab	1	Co-requisite CHM 2211
XXX XXXX	Gen. Ed. Humanities ³	3	

Year 3 - Junior

Fall		16	Prerequisites
MCB 3652C	Environmental Microbiology	3	BSC 1010C (or BSC 1010 and BSC 1010L) and CHM 1046C (or CHM 1046 and CHM 1046L)
XXX XXXX	Restricted Elective in Biology	3	Must meet course specific prerequisites
IDS 3300	Foundations of Civic Engagement	3	
PHY 2053C	College Physics I with lab	4	MAC 1147 or MAC 2311
IDS 3290	University Colloquium	3	

Spring		16	Prerequisites
MCB 3020C	General Microbiology	4	CHM 2210C (or CHM 2210 and CHM 2210L) and BSC 1010C (or BSC 1010 and BSC 1010L)
BCH 3023C	Biochemistry	3	CHM 2211C (or CHM 2211 and CHM 2211L)
ISC 3120C	Scientific Process	3	OCE 3008C or BSC 1051C or PCB 3063C or PCB 3023C or CHM 2211C (or CHM 2211 and CHM 2211L) and STA 2023 or STA 2037
PHY 2054C	Collegel Physics II with lab	4	PHY 2053C
XXX XXXX	Elective	2	

Year 4 - Senior

Fall		14	Prerequisites
MCB 4502C	Virology	3	MCB 3020C and PCB 3023C
BSC 4910C	Senior Project - Research	2	PCB 3063C and (PCB 3023C, ZOO 3713C, or PCB 3793C)
XXX XXXX	Restricted Elective in Biology	3	Must meet course specific prerequisites
XXX XXXX	Gen. Ed. Social Science ³	3	
XXX XXXX	Elective	3	

Spring		13	Prerequisites
PCB 4233C	Immunology	3	CHM 2211C (or CHM 2211 and CHM 2211L) and BSC 1010C (or BSC 1010 and BSC 1010L)
PCB 4203C	Pathogenic Microbiology	3	MCB 3020C or MCB 2010C
BSC 4911	Senior Project - Presentation	1	BSC 4910C
XXX XXXX	Elective	3	
XXX XXXX	Elective	3	

Color Code

Course Type	Total Credit Hours
General Education (not part of Common Prerequisites)	21
Common Prerequisite	31
Required in Major	26
Required in Concentration	19
Restricted Electives	9
University Requirement	3
Electives	11

¹ Any 9 credits from above (based on availability) must be completed in summer semester(s).

² See catalog under Program Requirements for a list of accepted substitutions and restricted electives.

³ At least one of these courses must be a Gordon Rule Class