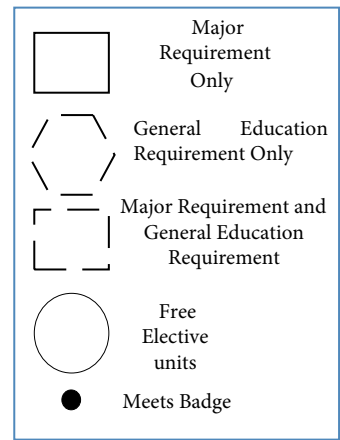


Biological Sciences Sample Plan – Microbiology and Immunology Track

Year 1	
Semester 1 (17 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 1 & 1L Contemporary Biology with Lab (5 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> SPARK Seminar (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> MATH 11 Calculus I for BIO (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> CHEM 2 General Chemistry I (4 units) </div> </div>
Semester 2 (17 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 2 & 2L Intro to Molecular Biology with Lab (5 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> WRI 10 College Reading & Composition (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> MATH 12 Calculus II for BIO (4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> CHEM 10 General Chemistry II (4 units) </div> </div>
Year 2	
Semester 3 (14-16 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> Major Computer Science Requirement (2-4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> GE Language (4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> PHYS 18 & 18L Introductory Physics I for Biological Sciences & Lab (3 units & 1 unit) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> CHEM 8& 8L Organic Chemistry I (4 units) </div> </div>
Semester 4 (14-16 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 110 The Cell (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Approaches to Knowledge Area A III (2-4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> PHYS 19 & 19L Introductory Physics II for Biological Sciences (3 units & 1 unit) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> CHEM 100 Organic Chemistry II (4 units) </div> </div>
Year 3	
Semester 5 (16-18 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 151 Molecular Immunology (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Approaches to Knowledge Area B I (4-5 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [BIO 151L or BIO 120L] (1-3 units) <small>*BIO 151L is a fall only course*</small> </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> BIO 101 Biochemistry (4 units) </div> </div>
Semester 6 (11-15 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 120 General Microbiology (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Approaches to Knowledge Area B II (2-4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> Probability & Statistics requirement (4-5 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 140 Genetics (4 units) </div> </div>
Year 4	
Semester 7 (12-17 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective Course I] (3-4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Writing in the Discipline (3-5 units) <small>*BIO 120L is an option*</small> </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective Course II] (3-4 units) </div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 20%;"> Free Elective (minimum 3 unit) </div> </div>
Semester 8 (12-18 units)	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective Course III] (3-4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Approaches to Knowledge Area B III (2-4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Integrative Culminating Experience (1-4 units) </div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 20%;"> Free Elective (minimum 6 units) </div> </div>



- This sample plan demonstrates the recommended sequencing and timing of the required and elective components within the major.
- In many cases, a student's academic background will require variations in the timing of the coursework listed in the plan.
- All students are expected to work with their academic advisor to find their best pathway through the degree requirements of their chosen program.
- When taking an advanced language GE, students might need to plan to take its prerequisite or its first level course.
- BIO 150L or BIO 120L can meet Writing in the Discipline and emphasis.

***Crossroads and Writing in the Discipline can not be shared with one another