

Biological Sciences Sample Plan – Molecular & Cell Track

Year 1	Year 2	Year 3	Year 4				
Semester 1 (17 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <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%;"> MATH 11 Calculus I for BIO (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Sparks (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; margin-top: 10px;"> <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%;"> MATH 12 Calculus II for BIO (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> WRI 10 College Reading & Composition (4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> CHEM 10 General Chemistry II (4 units) </div> </div>	Semester 3 (12-14 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> MATH 15 Introduction to Scientific Data Analysis (2 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 dashed black; padding: 5px; width: 20%;"> Language (2-4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 110 The Cell (4 units) </div> </div>	Semester 4 (15-17 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> CHEM 8 & 8L Organic Chemistry I (4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> PHYS 19 & 19L Introductory Physics II for Biological Sciences & Lab (3 units & 1 unit) </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%;"> [Upper Division Science or Engineering] (3-4 units) </div> </div>	Semester 5 (14-20 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <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%;"> [Laboratory Component – Lecture & lab (4-7 units)] </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Crossroads (4 units) </div> <div style="border: 1px dashed black; padding: 5px; width: 20%;"> Approaches to Knowledge Area B II (2-4 units) </div> </div>	Semester 6 (12-16 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Evolution Course] (3-4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> BIO 140 Genetics (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 dashed black; padding: 5px; width: 20%;"> Writing in the Discipline (3-4 units) </div> </div>	Semester 7 (12-16 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Quantitative Biology] (4 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective I] (3-5 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; border-radius: 50%; padding: 5px; width: 20%;"> Free Elective (3 units) </div> </div>	Semester 8 (12-21 units) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective II] (3-5 units) </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> [Upper Division Biology Elective III] (3-5 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 (3 units) </div> </div>

Major Requirement Only
 General Education Requirement Only
 Major Requirement and General Education Requirement
 Free Elective units
 Meets Badge

- 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.
 - For crossroads please refer to these classes: BIO 101, BIO 130/ESS, BIO 170, & BIO 177.
 - For major/emphasis and writing in the discipline... BIO 130/ESS, BIO 150L, & BIO 161.
- ***Crossroads and writing in the discipline can not be shared with one another