UNIVERSITY OF CALIFORNIA MERCED | SCHOOL OF NATURAL SCIENCES UNDERGRADUATE ADVISING

Biological Sciences Sample Plan – Ecology and Evolutionary Track

Year 1	Semester 1 (17 units)	BIO 1 & 1L Contemporary Biology with Lab (5 units)	SPARK Seminar (4 units)	MATH 11 Calculus I for BIO (4 units)	CHEM 2 General Chemistry I (4 units)
	Semester 2 (17 units)	BIO 2 & 2L Intro to Molecular Biology with Lab (5 units)	WRI 10 College Reading & Composition (4 units)	MATH 12 Calculus II for BIO (4 units)	CHEM 10 General Chemistry II (4 units)
Year 2	Semester 3 (12-14 units)	Language (2-4 units)	MATH 15 Introduction to Scientific Data Analysis (2 units)	PHYS 18 & 18L Introductory Physics I for Biological Sciences & Lab (3 units & 1 unit)	CHEM 8/L Organic Chemistry I (4 units)
	Semester 4 (16-17 units)	BIO 110 The Cell (4 units)	Approaches to Knowledge | Area B I (4-5 units)	PHYS 19 & 19L Introductory Physics II for Biological Sciences & Lab (3 units & 1 unit)	Bio 141 Evolution (4 units)
Year 3	Semester 5 (13-18 units)	Approaches to Knowledge | Area A III (2-5 units)	Probability & Statistics Requirement (4-5 units)	[Upper Division Science/Engineering Course] (3-4 units)	Bio 148 Fundamentals of Ecology (4 units)
	Semester 6 (12-17 units)	[Practicum Component – (4-7 units)	Crossroads Course (4 units)	Approaches to Knowledge | Area B II (2-4 units)	Free Elective (minimum 2 unit)
Year 4	Semester 7 (12-17 units)	Writing in the Discipline (3-5 units)	BIO 140 Genetics (4 units)	Approaches to Knowledge | Area B III (2-5 units)	Free Elective (minimum 3 unit)
	Semester 8 (12-17 units)	[Upper Division Biology Elective Course I] (3-5 units)	[Upper Division Biology Elective Course II] (3-5 units)	Integrative Culminating Experience (4-5 units)	Free Elective (minimum 2 unit)

- 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.
- Classes that can maximize major/emphasis and writing in the discipline are BIO 129, BIO 130, & BIO 150L.
- For crossroads please refer to these classes: BIO 129/ESS, BIO 130/EE, BIO 133/ESS, BIO 153, BIO 170, BIO 172/ESS, & BIO 177

***Crossroads and writing in the discipline can not be shared with one another.

Updated 7.31.20