

Biology, Geology and Environmental Sciences

B.S. in Biology

Program Description

The Bachelor of Science in Biology degree builds foundational knowledge in biology as well as chemistry, physics and math through core required courses. Students then select additional biology electives that explore concepts related to their individual area of interest.

Delivery Mode

Traditional (on campus)

Curriculum

The following eight-semester schedule of courses provides a recommended framework for completing this program of study in four years.

Course	Credits
Freshman Year	
First Semester	15
BIO 120 General Zoology	4
CHE 101 General Chemistry I	4
ENG 101 English Composition I	3
UNI 100 First-Year Seminar	1
General Education Course	3
Second Semester	17
BIO 125 General Botany	4
CHE 102 General Chemistry II	4
ENG 102 English Composition II	3
MAT 273 Applied Calculus OR MAT 281 Calculus I	3
General Education Course	3
Sophomore Year	
Third Semester	14
BIO 215 Introduction to Cellular and Molecular Biology	4
PHY 121 General Physics I	4
Free Elective	3
General Education Course	3

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Course	Credits
Fourth Semester	15
BIO 248 General Ecology	4
CHE 331 Organic Chemistry I	4
PHY 122 General Physics II	4
General Education Course	3
Junior Year	
Fifth Semester	15
BIO 300/400 level Anatomy and Physiology Course	4
BIO 218 Genetics	4
Free Electives	4
General Education Course	3
Sixth Semester	17
BIO 300/400 level Anatomy and Physiology Course	4
MAT 215 Statistics	3
Related Electives	7
General Education Course	3
Senior Year	
Seventh Semester	14 or 15
BIO 478 Evolution	3
ENS 495 Design and Analysis	4
Related Elective	3 or 4
Free Electives	4
Eighth Semester	12 or 13
Related Elective	3
Free Elective	3 or 4
General Education Course	3

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General Education EMA	3
Total	120

Related BIO/Professional Electives (13 credits)

- BIO, ENS, CHE or related College of Science and Technology 300- or 400-level course (with approval of your advisor)

Program Note

A chemistry minor (20 credits) is recommended for those students intending to pursue graduate or professional school (must declare minor with Chemistry Chair).

Program Website

<https://www.calu.edu/academics/undergraduate/bachelors/biology/index.aspx>