

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

Course	Credits
General Education Courses	42
<i>Building a Sense of Community</i> UNI 100 First-Year Seminar	1
<i>Composition</i> ENG 101 English Composition I	3
<i>Public Speaking</i> Any Oral Communication Course	3
<i>Mathematics and Quantitative Literacy</i> MAT 273 Applied Calculus OR MAT 281 Calculus I	3
<i>Health and Wellness</i> Any Health and Wellness Course	3
<i>Technological Literacy</i> Any Tech Lit. Course	3
<i>Humanities</i> Any Humanities Course	3
<i>Fine Arts</i> Any Fine Arts Course	3
<i>Natural Sciences</i> PHY 121 General Physics I	4
<i>Social Sciences</i> Any Social Science Course	3
<i>General Education Options</i> <ul style="list-style-type: none"> • Any Ethics and Multicultural Awareness Emphasis Course • ENG 102 Composition II • MAT 215 Statistics • CHE 101 General Chemistry I 	13

Department of Biology, Geology and Environmental Sciences

Course	Credits
Required Major Courses	47
BIO 120 General Zoology	4
BIO 125 General Botany	4
BIO 215 Cellular and Molecular Biology	4
BIO 218 Genetics	4
BIO 248 General Ecology	4
BIO 300-level Anatomy Course	4
BIO 300- or 400-level Physiology Course	4
BIO 478 Evolution	3
ENS 495 Design and Analysis	4
PHY 122 General Physics II	4
CHE 102 General Chemistry II	4
CHE 331 Organic Chemistry I	4
Related Electives	13
Any 300- or 400-level BIO or ENS course, CHE 415 or related College of Science and Technology 300- or 400-level course (with approval of your adviser)	13
Free Electives	18
Total	120

Additional requirements, not counted toward the General Education requirements, include:

- **Special Experience Course (1 course required):** Any Special Experience Course
- **Writing-Intensive Component Courses (2 courses required):** Any two BIO or ENS Upper-Division Writing Component Courses
- **Laboratory Course (1 course required):** BIO 215 Cellular and Molecular Biology

Program Note: Chemistry minor (20 credits) recommended for those students intending to pursue graduate or professional school. (Must declare minor with chemistry chair.)

Program Webpage

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