

B.S. in Biology: Plant Biology Concentration

Program Description

The plant biology concentration of the Bachelor of Science in Biology degree deepens student knowledge of plant sciences. Students may choose to focus on plant ecology or biology in their upper-level courses.

Delivery Mode

Traditional (on campus)

Curriculum

Course	Credits
General Education Courses	41 or 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 Technological Literacy Course	3
<i>Humanities</i> Any Humanities Course	3
<i>Fine Arts</i> Any Fine Arts Course	3
<i>Natural Sciences</i> EAS 142 Climatology (3 credits) OR GLG 150 Intro to Geology (4 credits)	3 or 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 • PHY 121 Physics 	13

Department of Biology, Geology and Environmental Sciences

Course	Credits
Required Major Courses	35
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 307 Plant Anatomy	4
BIO 335 Plant Physiology	4
BIO 336 Plant Taxonomy	4
BIO 478 Evolution	3
Required Chemistry Electives	12
CHE 101 General Chemistry I	4
CHE 102 General Chemistry II	4
CHE 331 Organic Chemistry I	4
Ecology or Biology Option (select one option)	12
<i>Ecology Option</i>	
Select at least two of the following: <ul style="list-style-type: none"> • BIO 407 Mycology • BIO 414 Plant Ecology • BIO 442 Forest Ecology and Dendrology • ENS 475 Wetlands Ecology 	8
Select any 300- or 400-level BIO or ENS course not used to fill another requirement (with adviser's approval)	4
<i>Biology Option</i>	
Select at least two of the following: <ul style="list-style-type: none"> • BIO 326 General Microbiology • BIO 480 Cell Biology • CHE 415 Biochemistry 	8

Department of Biology, Geology and Environmental Sciences

Course	Credits
Select any 300- or 400-level BIO or ENS course(s) not used to fill another requirement (with adviser's approval)	4 or 5
Free Electives	20
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 (or other department, with approval of adviser) Upper-Division Writing Component Courses
- **Laboratory Course (1 course required):** BIO 215 Cellular and Molecular Biology

Program Webpage

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