

B.S. in Environmental Studies: Conservation Ecology Concentration

Program Description

The conservation ecology concentration of the Bachelor of Science in Environmental Studies degree program explores fields of ecology and evolutionary biology with a focus on the presentation and management of natural resources and biodiversity. Students learn about the impact of humans on biodiversity as well as aspects of international law and policy as they affect our resources. The program builds skills and knowledge needed to effectively handle problems in the area of conservation and sustainable development. Students are able to add additional courses in botany or zoology that are content-specific, and they can opt to participate in a field experience or an internship to help strengthen their program of study.

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> CDC 101 Public Speaking	3
<i>Mathematics and Quantitative Literacy</i> MAT 181 College Algebra OR 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> GIS 311 Geographic Information Systems	3
<i>Humanities</i> Any Humanities Course	3
<i>Fine Arts</i> Any Fine Arts Course	3
<i>Natural Sciences</i> CHE 101 General Chemistry I	4
<i>Social Sciences</i> Any Social Science Course	3
<i>General Education Options</i>	13

Department of Biology, Geology and Environmental Sciences

Course	Credits
<ul style="list-style-type: none"> • Any Ethics and Multicultural Awareness Emphasis Course • ENG 102 Composition II • CHE 102 General Chemistry II • MAT 215 Statistics 	
Required Major Courses	45
PHY 121 General Physics	4
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 478 Evolution	3
ENS 399 Conservation Biology	3
ENS 435 Natural Resource Law and Policy	3
ENS 495 Design and Analysis	4
Select two of the following: <ul style="list-style-type: none"> • ENS 475 Wetlands Ecology • BIO 414 Plant Ecology • BIO 442 Forest Ecology and Dendrology 	8
Related Electives	15
Select two of the following: <ul style="list-style-type: none"> • BIO 305 Comparative Vertebrate Anatomy • BIO 441 Ethology • ENS 492 Animal Population Dynamics 	8
Select from any 300- or 400-level BIO or ENS courses with approval of major adviser or department chair	7
Free Electives	18
Total	120

* MAT 273 or 281 recommended for graduate studies.

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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 Webpage

<https://www.calu.edu/academics/undergraduate/bachelors/environmental-studies/conservation-ecology.aspx>