

Biology, Geology and Environmental Sciences

B.S. in Environmental Studies: Environmental Science Concentration

Program Description

The Environmental Science concentration of the Bachelor of Science in Environmental Studies degree is an interdisciplinary program that combines the biological and physical sciences with chemistry to provide solutions to today's environmental problems. Students gain a broad background in environmental pollution (including air, water and waste); environmental policy; and the technical skills required of today's professional environmental scientist.

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
COM 101 Oral Communication	3
ENG 101 English Composition I	3
UNI 100 First-Year Seminar	1
Second Semester	14 or 15
BIO 125 General Botany	4
CHE 102 General Chemistry II	4
ENG 102 English Composition II	3
EAS 100 Introduction to Earth Science OR EAS 150 Introduction to Geology	3 or 4
Sophomore Year	
Third Semester	14
BIO 215 Introduction to Cellular and Molecular Biology	4
MAT 273 Applied Calculus OR MAT 281 Calculus I	3
PHY 121 General Physics I	4
General Education EMA	3

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Course	Credits
Fourth Semester	17
BIO 248 General Ecology	4
CHE 331 Organic Chemistry I	4
MAT 215 Statistics	3
General Education Courses	6
Junior Year	
Fifth Semester	13
ENS 435 Law Planning and Policy	3
ENS 495 Design and Analysis	3
GIS 311 Geographic Information Systems	3
Free Elective	4
Sixth Semester	15
BIO 488 Water Pollution Biology	4
CHE 381 Environmental Chemistry	4
EAS 303 Hydrology	3
Free Elective	4
Senior Year	
Seventh Semester	15
ENS 475 Wetlands Ecology	4
Biology-related Elective	4
General Education Course	3
Free Elective	4
Eighth Semester	16 or 17
ENS 440 Environmental Pollution Control	4
Biology-related Elective	3
General Education Course	3

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Course	Credits
Free Electives	6 or 7
Total	120

Related Electives (7 credits)

- Any 300- or 400-level BIO/ENS courses

Program Webpage

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