

Biology, Geology and Environmental Sciences

B.S. in Fisheries and Wildlife Biology

Program Description

The Bachelor of Science in Fisheries and Wildlife Biology degree explores various techniques and philosophies of fisheries and wildlife management. The program emphasizes the management of North American species, with a focus on those found within Pennsylvania. Students learn about natural resources, conservation and current issues in the discipline.

The curriculum includes those courses identified by the Wildlife Society and the American Fisheries Society as critical for the graduate. Students have a chance to become certified by either society upon graduation. This program also incorporates many unique experiences that help students network with future employers and develop professional contacts.

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	14
BIO 120 General Zoology	4
ENG 101 English Composition I	3
UNI 100 First-Year Seminar	1
General Education Courses	6
Second Semester	16 or 17
BIO 125 General Botany	4
ENG 102 English Composition II	3
MAT 181 College Algebra OR MAT 273 Applied Calculus OR MAT 281 Calculus I	3
General Education Courses	6 or 7
Sophomore Year	
Third Semester	17
BIO 215 Introduction to Cellular and Molecular Biology	4
CHE 101 General Chemistry I	4
Free Elective	3

Biology, Geology and Environmental Sciences

Course	Credits
General Education Course	3
General Education EMA	3
Fourth Semester	15
BIO 218 Genetics	4
BIO 248 General Ecology	4
CHE 102 General Chemistry II	4
MAT 215 Statistics	3
Junior Year	
Fifth Semester	14
ENS 399 Conservation Biology OR ENS 420 Principles of Wildlife Biology OR ENS 425 Principles of Aquaculture	3
ENS 495 Design and Analysis	4
GIS 311 Geographic Information Systems	3
Advanced Botany Course	4
Sixth Semester	15
ENS 399 Conservation Biology OR ENS 420 Principles of Wildlife Biology OR ENS 425 Principles of Aquaculture	3
Biology-related Elective	4
Free Electives	8
Senior Year	
Seventh Semester	14
ENS 423 Wildlife Management Techniques OR ENS 424 Fisheries Management	4
Biology-related Elective	4
Law/Planning/Policy Elective	3
Free Elective	3

Biology, Geology and Environmental Sciences

Course	Credits
Eighth Semester	14 or 15
ENS 492 Animal Population Dynamics	4
General Education Courses	3
Free Elective	7 or 8
Total	120

Related Electives

- Pick two of the following (8 credits): BIO 337, BIO 400, BIO 407, BIO 433, BIO 435, BIO 441, BIO 445, BIO 446, BIO 488
- Pick one of the following (6 credits): ENS 435, GIS 413, REC 362, REC 365

Program Webpage

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