ENVIRONMENTAL BIOLOGY MAJOR

The major in Environmental Biology is a focused course of study intended for students who are interested in conservation biology, environmental preservation, human health, education, and public policy. Our diverse faculty offer engaging, student-centered courses with ample opportunities for hands-on learning in the lab and field in addition to research and study abroad programming in Ecuador, Australia, and Scandinavia, for example. Students are encouraged to join our labs, where they can develop a wide range of skills and expertise in areas including coastal, aquatic, tropical and disease ecology. The major will prepare students who are interested in seeking employment with environmental agencies of federal, state, and municipal governments or non-governmental organizations, and in private industry, including environmental economics and environmental consulting firms. The program also may appeal to individuals planning to enter the field of environmental law. Global Change Biology and Conservation Biology are required electives for the ENVB major.

The major in Environmental Biology is one of two majors offered by the Ecology and Evolutionary Biology Department to undergraduate students. The Department also offers a major in Ecology and Evolutionary Biology.

Requirements

The major in environmental biology provides understanding of biological processes among populations, communities, and ecosystems. Majors must complete eight core courses, three elective courses, three chemistry courses (or alternatives as listed below), two mathematics courses and the capstone requirement.

Course ID	Title	Credits
Core Courses		
EBIO 1010 & EBIO 1015	Diversity of Life and Diversity of Life Lab	4
EBIO 1020	Mechanisms of Life	3
or CELL 1010	Intro to Cell & Molec Biology	
EBIO 2020	Theory and Methods in Ecology and Evolutionary Biology	3
EBIO 2040	Conservation Biology	3
EBIO 2050	Global Change Biology	3
EBIO 2070 & EBIO 2071	Molecular and Evolutionary Genetics and Molecular and Evolutionary Genetics Recitation	4
or CELL 2050 & EBIO 2072	Genetics and Quantitative, Population & Evolutionary Genetics	
EBIO 3040 & EBIO 3045	General Ecology and General Ecology Lab	4
EBIO 3080	Processes of Evolution	3
Elective Courses		
Select three elective courses [1]		
One 3-credit-hour EBIO Lecture Elective		**3**
Two 4-credit-hour EBIO Lab Electives		**8**
Chemistry Requirement		
CHEM 1070 & CHEM 1075	General Chemistry I and General Chemistry Lab I	4
General Chemistry II or 4-credit-hour EBIO Lab Electives, or alternate course from list below		
CHEM 1080 & CHEM 1085	General Chemistry II and General Chemistry Lab II	4
or CHEM 2500	Environmental Chemistry	
or ECON 3330	Environmental & Natural Resource	
or EVST 3310	Approaches to Environ Studies	
or EVST 3950	Special Topics Environmental Thought	
or POLI 4620	Global Envirnmnt Politcs	
or SOCI 2600	Environmental Sociology	
Organic Chemistry I or 4-credit-hour EBIO Lab Electives or alternate course from list below		
CHEM 2410 & CHEM 2415	Organic Chemistry I and Organic Chemistry Lab I	4

or EENS 2120	Climate and Extinction	
& EENS 2121	and Climate and Extinction lab	
or EENS 4360	Environmental Geochemistry	
or RCSE 6802	Introduction to Coastal Science and Engineering	
or RCSE 6810	River and Stream Restoration	
Environmental Biology Capstone [2] **EBIO 5970 (3 credit hours) carries the NTC Tier-2 Writing Attribute**		
EBIO 5970	Capstone Research Seminars	2-3
or EBIO 5971	Capstone Research Seminars	
Complete two semesters of Mathematics [3]		**6**
Total Credit Hours		**58-59**

1 Three elective courses(see department courses (https://catalog.tulane.edu/science-engineering/ecology-evolutionary-biology/#coursestext) list) in the department of ecology and evolutionary biology must include two laboratory-field courses. Internship studies, independent studies and seminars will not fulfill the elective. EBIO 4990 Honors Thesis Edited Course (3 c.h.) and EBIO 5000 Honors Thesis Edited Course (4 c.h.) satisfy only one lecture elective in the major. Students who opt to write an Honors Thesis will take EBIO 4992 Honors Thesis Cohort (0 c.h.) in both semesters concurrently with the thesis courses.

2 This capstone requirement may be satisfied by completion of EBIO 5970 Capstone Research Seminars (3 c.h.) or EBIO 5971 Capstone Research Seminars (2 c.h.).

3 A minimum of 6 credits of mathematics is required for the Bachelor's of Science degree in the Tulane School of Science and Engineering. Any two Mathematics (MATH) courses numbered 1210 and above may be used to satisfy this requirement. However, the combination of MATH 1150 and MATH 1160 (Long Calculus) may count as one course towards this requirement. Courses in statistics and physics are highly recommended but are not required.

Contact

For more information, contact the School of Science and Engineering (https://sse.tulane.edu/eebio/about/contact/).