

ENVIRONMENTAL SCIENCE (B.S.)

Degree: Bachelor of Science

Major: Environmental Science

Concentration: None

Total Hours: 120

The Major in Environmental Science is an interdisciplinary program concerned with protecting, monitoring, managing, and improving the environment. The degree program combines study in biology, chemistry, geology, engineering and political science in preparing the student for a career with regulatory agencies, industry, consulting firms, or academia. This degree program combines fundamental training in the basic sciences with broad training across several of the traditional disciplines to prepare students for employment or graduate study. An internship is required to integrate academic preparation with actual work experience.

Notes:

- Students must complete the Freshman Composition sequence (or its equivalent, ENGL 1301 Composition I and ENGL 1302 Composition II) requirements with no less than a "C". Students must continually be enrolled in an English Composition course until this requirement is met.
- Students must complete 6 hours of mathematics/statistics and continually be enrolled in a Mathematics course until this requirement is met.
- Students must complete all courses required in their major and minor with at least a grade of "C."
- Students must complete all prerequisite courses with a grade of "C" or better before taking any more advanced biology course.
- The three credits of free electives must be at the 3000 to 4000 level and approved by the Environmental Science advisor.
- MATH 2312 Pre Calculus and Elementary Functions, is a required course for the Environmental Science degree. If a student that is University core complete enters the Environmental Science program that student must complete MATH 2312 Pre Calculus and Elementary Functions, before taking any course required by the degree.

Code	Title	Hours
General Requirements		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
COMM 1315	Public Speaking I	
COMM 1321	Business and Professional Speech	
ENGL 1302	Composition II	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics</i>		
MATH 2312	Pre Calculus and Elementary Functions	3
<i>Life and Physical Sciences</i>		
BIOL 1406	General Biology I (Majors)	4
BIOL 1407	General Biology II (Majors)	4

Language, Philosophy and Culture

Select one of the following:		3
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Ethics and Literature	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
FREN 2312	Intermediate French II	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
SPAN 2312	Intermediate Spanish II	

Creative Arts 3

ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2303	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	

American History

Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	

Government/Political Science

POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3

Social and Behavioral Sciences

Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
POLS 1301	Intro to Political Science	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	

Component Area Option

ENGL 1302	Composition II	3
PSYC 2317	Introduction to Statistical Methods	3

Required Major Courses

Biology Core

2 Environmental Science (B.S.)

BIOL 2421	Microbiology for Science Majors	4
BIOL 3450	General Botany	4
BIOL 4300	Undergraduate Problems (Internship)	3
BIOL 4302	Conservation Biology	3
BIOL 4430	Limnology	4
BIOL 4435	Environmental Toxicology	4
BIOL 4460	Ecology	4

Chemistry Courses

CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Laboratory	4
CHEM 1312 & CHEM 1112	General Chemistry II and General Chemistry II Laboratory	4
CHEM 3311 & CHEM 3111	Organic Chemistry I and Organic Chemistry I Laboratory	4
CHEM 3401	Quantitative Analysis	4
CHEM 4481	Environmental Analysis	4

Science and Mathematics Courses

COSC 1371	Microcomputers	3
GEOL 1403	Geology I: Physical Geology	4
GEOL 3390	Environmental Geography and Geology	3
GEOL 4370	Meteorology	3
PHYS 1401	College Physics I	4
PHYS 1402	College Physics II	4
GEOL 3315 or GEOL 4311	Hydrogeology or Fundamentals of GIS	3

Additional Courses

BULW 3330	Environmental Law	3
3000-4000 level Elective		3

Total Hours 120

Course	Title	Hours
First Year		
Fall		
BIOL 1406	General Biology I (Majors)	4
CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Laboratory	4
Communication		3
MATH 2312	Pre Calculus and Elementary Functions	3
Hours		14
Spring		
ENGL 1301	Composition I	3
BIOL 1407	General Biology II (Majors)	4
CHEM 1312 & CHEM 1112	General Chemistry II and General Chemistry II Laboratory	4
Social and Behavioral Science		3
Hours		14
Second Year		
Fall		
ENGL 1302	Composition II	3
HIST 1301	U S History I 1763-1877	3
BIOL 2421	Microbiology for Science Majors	4
CHEM 3401	Quantitative Analysis	4
Hours		14
Spring		
HIST 1302	U S History II Since 1877	3
PSYC 2317	Introduction to Statistical Methods	3
GEOL 1403	Geology I: Physical Geology	4

CHEM 3311 & CHEM 3112	Organic Chemistry I and Organic Chemistry II Laboratory	4
Language, Philosophy & Culture		3

Hours 17

Third Year

Fall

Creative Arts		3
POLS 2301	Intro to American Government I	3
CHEM 4481	Environmental Analysis	4
GEOL 4370	Meteorology	3
BIOL 3450	General Botany	4

Hours 17

Spring

COSC 1371	Microcomputers	3
POLS 2302	Intro/American Government II	3
BIOL 4435	Environmental Toxicology	4
GEOL 3390	Environmental Geography and Geology	3
GEOL 3315 or GEOL 4311	Hydrogeology or Fundamentals of GIS	3

Hours 16

Fourth Year

Fall

Select one of the following:		3
BIOL 4300	Undergraduate Problems (Internship)	
Approved Free Elective		
BIOL 4460	Ecology	4
BIOL 4302	Conservation Biology	3
PHYS 1401	College Physics I	4

Hours 14

Spring

Select one of the following:		3
BIOL 4300	Undergraduate Problems	
Approved Free Elective		
BIOL 4430	Limnology	4
BULW 3330	Environmental Law	3
PHYS 1402	College Physics II	4

Hours 14

Total Hours 120