Bachelor of Science in Environmental Studies: Technical Concentration

Program Overview

The mission of the Environmental Studies Program is to provide students experiential learning opportunities and rigorous academics rooted in natural sciences, political sciences, economics and philosophy to better understand the human endeavor in the context of responsible environmental stewardship. Through the program students learn about local, regional and global environmental issues that are integrated across disciplines. Global climate change, loss of biodiversity, clean water, resource depletion and the lack of a "land ethic" all suggest there are tremendous fundamental opportunities for positive change. Humans as well as all other organisms depend upon the quality and integrity of natural systems. The future of the world depends on the wisdom with which science and technology are used and how humans engage in responsible decision making that leads toward an environmentally sustainable world. The Environmental Studies Program provides a fundamental understanding of the biophysical world and how it intersects with human endeavors through formal academics, laboratory and field experiences, internships and undergraduate research opportunities. This interdisciplinary program includes three tracks: Technical, Natural History and Policy Track.

Degree Requirements

To earn this degree, students must have a GPA of 2.0 or higher in the Major as well as an overall GPA of 2.0, complete a minimum of 120 credit hours, and fulfill the course requirements of the program listed below.

*This is a sample plan; specific courses may vary from year to year. Academic advisors will work with each student to develop their individual schedule.

✓	Major-Specific Required Courses		CREDITS
	BIOL 106/L^	Principles of Biology I/Lab	4
	BIOL 108/L	Principles of Biology II/Lab	4
	BIOL 225/L	Conservation Biology/Lab	3
	CHEM 111/R/L	General Chemistry I/Recitation/Lab	5
	CHEM 113/R/L	General Chemistry II/Recitation/Lab	5
	CHEM 235/L	Analytical Chemistry/Lab	4
	CHEM 260	Environmental Chemistry	3
	DATA 210^	Statistical Analysis	4
	ECON 115	Economic Concepts	3
	ENVS 130	Introduction to Environmental Studies	3
	ENVS 401	Environmental Science	3
	INTD 425^	Environmental Philosophy	3

	Choose 1 of the following:		CREDITS
	BIOL 315/L	Ecology/Lab	4
	BIOL 413/L	Limnology/Lab	4

	Choose 1 of the following:		CREDITS
	CHEM 106/L	Introduction to Organic Chemistry/Lab	4
	CHEM 311/R/L	Organic Chemistry I/Recitation/Lab	5

	Choose 1 of the following:		CREDITS
	ENVS 475	Internship in Environmental Studies	3
	ENVS 380/480	Special Problems	3

	Choose 1 of the following:		CREDITS
	POSC 121	American National Politics	3
	POSC 122	State and Local Politics	3

	CORE		CREDITS
✓		Foundation	
	LA-FWS	First-Year Writing Seminar	3
	LA-FCS	First-Year Communication Seminar	3
	LA-FQR	Quantitative Reasoning	3-4
	LA-FSS	First Year Success Seminar	1
	LA-FCG	Cultural and Global Understanding	3-5
		Exploration	
	LA-EAH	Arts and Humanities	3
	LA-ENS	Natural Sciences	3-6
	LA-ESS	Social Sciences	3-4
		Transformation	
	LA-TFR	Faith, Reason, and Ethics	3
	LA-TBI	Big Issues - 2 courses	6-7
	LA-TCE	Creative Expression	1-3

✓	Additional credits to bring total to 120+ credits		CREDITS
		Electives	
		Experiential Learning	

MAJOR	*Options
CORE	^CORE equivalent
ELECTIVE/MINOR	
EXPERIENTIAL	

Total Program Credits: 120+

Example Course Sequence:

The following is a sample of a semester-by-semester approach to completing this program in 4 years.

YEAR 1			
FIRST SEMESTER			
COURSE		CREDITS	PREREQUISITES
BIOL 106/L^	Principles of Biology I/Lab	4	
CHEM 111/R/L	General Chemistry I/Recitation/Lab	5	
LA-FWS	First-Year Writing Seminar	3	
LA-FCS	First-Year Communication Seminar	3	
LA-FSS	First Year Success Seminar	1	
JAN TERM			
COURSE		CREDITS	
SECOND SEMESTER			
COURSE		CREDITS	
BIOL 108/L	Principles of Biology II/Lab	4	
CHEM 113/R/L	General Chemistry II/Recitation/Lab	5	CHEM 111
ENVS 130	Introduction to Environmental Studies	3	
LA-EAH	Arts and Humanities	3	
		31	

YEAR 2			
THIRD SEMESTER			
COURSE		CREDITS	PREREQUISITES
CHEM 235/L	Analytical Chemistry/Lab	4	CHEM 113
LA-ESS	Social Sciences	3	
LA-TCE	Creative Expression	3	
ELECTIVE/MINOR		3	
JAN TERM			
COURSE		CREDITS	
ELECTIVE/MINOR		3	
FOURTH SEMESTER			
COURSE		CREDITS	
CHEM 260	Environmental Chemistry	3	6 hours of college-level chemistry courses
BIOL 225/L	Conservation Biology/Lab	3	
LA-FCG	Cultural and Global Understanding	3	
LA-TFR	Faith, Reason, and Ethics	3	
		28	

4-Year Sample Schedule Cont.

YEAR 3			
FIFTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
BIOL 315/L	Ecology/Lab	4	BIOL 106/L and BIOL 108/L
CHEM 311/R/L	Organic Chemistry I/Recitation/Lab	5	Grade of C- or higher in CHEM 113
LA-TBI	Big Issues	3	
ELECTIVE/MINOR		3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
SIXTH SEMESTER			
COURSE		CREDITS	
POSC 121	American National Politics	3	
DATA 210^	Statistical Analysis	4	
ELECTIVE/MINOR		3	
EXPERIENTIAL		3	
		31	

YEAR 4			
SEVENTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
ENVS 401	Environmental Science	3	BIOL 130 or ENVS 130
ECON 115	Economic Concepts	3	
ELECTIVE/MINOR		3	
ELECTIVE/MINOR		3	
EXPERIENTIAL		3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
EIGHTH SEMESTER			
COURSE		CREDITS	
ENVS 475	Internship in Environmental Studies	3	
INTD 425^	Environmental Philosophy	3	1 course in PHIL
ELECTIVE/MINOR		3	
EXPERIENTIAL		3	
		30	
	TOTAL CREDITS	120	