

# 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

Total Program Credits: 120+

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
	BIOL 331/L Invertebrate Zoology/Lab	4
	ECON 115 Economic Concepts	3
	ENVS 130^ Introduction to Environmental Studies	3
	ENVS 201 Interpretation of Natural History	3
	ENVS 401 Environmental Science	3
	INTD 425^ Environmental Philosophy	3
Choose 1 of the following:		CREDITS
	BIOL 241/L Vascular Plant Systematics/Lab	4
	BIOL 244/L Botany/Lab	4
Choose 1 of the following:		CREDITS
	BIOL 315/L Ecology/Lab	4
	BIOL 413/L Limnology/Lab	4
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
	NASC 207/L Historical Geology/Lab	4
	NASC 209 Physical Geology	3
Choose 1 of the following:		CREDITS
	POSC 121 American National Politics	3
	POSC 122 State and Local Politics	3
Choose 2 semesters of chemistry w/lab from one sequence below		CREDITS
	CHEM 105/R/L Intro to Inorganic Chemistry/Recitation/Lab	5
	CHEM 106/L Intro to Organic Chemistry/Lab	4
or		
	CHEM 111/R/L General Chemistry I/Recitation/Lab	5
	CHEM 113/R/L General Chemistry II/Recitation/Lab	5

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	

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	
ECON 115	Economic Concepts	3	
LA-FWS	First-Year Writing 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	
ENVS 130^	Introduction to Environmental Studies	3	
LA-FCS	First-Year Communication Seminar	3	
		31	

YEAR 2			
THIRD SEMESTER			
COURSE		CREDITS	PREREQUISITES
ENVS 201	Interpretation of Natural History	3	FYWS or ENG 111; LA-FCS
BIOL 225/L	Conservation Biology/Lab	3	
LA-FQR	Quantitative Reasoning	3	
LA-EAH	Arts and Humanities	3	
ELECTIVE/MINOR		3	
JAN TERM			
COURSE		CREDITS	
ELECTIVE/MINOR		3	
FOURTH SEMESTER			
COURSE		CREDITS	
POSC 122	State and Local Politics	3	
BIOL 331/L	Invertebrate Zoology/Lab	4	BIOL 106/L and BIOL 108/L
LA-ESS	Social Sciences	3	
LA-TCE	Creative Expression	3	
		31	

4-Year Sample Schedule Cont.

YEAR 3			
FIFTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
ENVS 401	Environmental Science	3	ENVS 130
BIOL 244/L	Botany/Lab	4	BIOL 106/L and BIOL 108/L
LA-FCG	Cultural and Global Understanding	3	
ELECTIVE/MINOR		3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
SIXTH SEMESTER			
COURSE		CREDITS	
NASC 209	Physical Geology	3	
LA-TFR	Faith, Reason, and Ethics	3	
ELECTIVE/MINOR		3	
ELECTIVE/MINOR		3	
		28	

YEAR 4			
SEVENTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
BIOL 315/L	Ecology/Lab	4	BIOL 106/L and BIOL 108/L
LA-TBI	Big Issues	3	
ELECTIVE/MINOR		3	
ELECTIVE/MINOR		3	
EXPERIENTIAL		3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
EIGHTH SEMESTER			
COURSE		CREDITS	
INTD 425^	Environmental Philosophy	3	1 course in PHIL; junior or senior standing
ENVS 475	Internship in Environmental Studies	3	
ELECTIVE/MINOR		3	
EXPERIENTIAL		3	
		31	
	TOTAL CREDITS	121	