

# ENVIRONMENTAL STUDIES, BACHELOR OF ARTS - ENVS

## Major Requirements (40-75 Hours)

The following are required. In addition, at least one concentration must be chosen.

Code	Title	Credits
<b>Required</b>		
ENVS 161	Introduction to Environmental Studies	3
ENVS 171	Introduction to Environmental Science	3
ENVS 217	Environmental Policy	3
COMM 418	Seminar on Women, Leadership, and Communication	3
ENVS 385	Interdisciplinary Environmental Research	3
ENVS 386	Current Issues in Environmental Studies	1
ENVS 495	Comprehensive Project Seminar	3
<b>Concentration</b>		
Select at least one of the following Concentrations:		21-56
Environmental STEM Concentration (p. 1)		
Global Environmental Policy Concentration (p. 1)		
Nature Culture Arts Concentration (p. 2)		
Spirituality Justice Ethics Concentration (p. 2)		
Total Credits		40-75

## Concentrations

### Environmental STEM Concentration

Please note that the Earth and Water Science Area Focus is only available to students pursuing the dual degree in Engineering at the University of Notre Dame.

Code	Title	Credits
<b>Required</b>		
PHIL 256	Environmental Ethics	3
BIO 316	Conservation Biology	4
or BIO 323	Ecology	
<b>Environmentally-Related Science Elective</b>		
Select one of the following: <sup>1</sup>		3-4
BIO 308	Vertebrate Natural History	
BIO 316	Conservation Biology	
BIO 323	Ecology	
BIO 332	Ornithology	
CHEM 311	Thermodynamics	
PHYS 235	Nuclear Astrophysics	
PHYS 215	Materials Science	
PHYS 343	Thermodynamics	
<b>Area Focus Courses</b>		
Select four courses from one of the following areas:		12-13
<b>Applied Mathematics:</b>		
MATH 231	Calculus III	
MATH 326	Linear Algebra and Differential Equations	
MATH 335	Differential Equations II	

or MATH 336 Numerical Analysis		
MATH 381	Mathematical Modeling	
<b>Earth and Water Science (at Notre Dame):</b>		
CE 20110	Planet Earth	
CE 20320	Environmental Aquatic Chemistry	
CE 20520	Environmental Mineralogy	
CE 30300	Intro to Environmental Engineering	
CE 30320	Water Chemistry and Treatment	
CE 30455	Environmental Hydrology	
<b>Required Supporting Courses</b>		
CHEM 121	Principles of Chemistry I	8
& CHEM 122	and Principles of Chemistry II	
PHYS 121	General Physics I: Mechanics and Waves	8
& PHYS 122	and General Physics II: Temperature, Electricity, and Light	
MATH 131	Calculus I	4-8
& MATH 132	and Calculus II	
or MATH 133	Theory and Application of Calculus	
Select one of the following:		3-6
MATH 345	Probability	
& MATH 346	and Statistics (Applied Mathematics focus)	
ACMS 30440	Probability and Statistics (Earth & Water Science focus)	
Total Credits		45-54

<sup>1</sup> With program permission, the following earth or water science courses offered at Notre Dame may be used to fulfill this requirement: CE 20110 – Planet Earth, CE 20520 – Environmental Mineralogy, CE 20320 – Environmental Aquatic Chemistry.

### Global Environmental Policy Concentration

Code	Title	Credits
<b>STEM Elective</b>		
Select one of the following:		3-4
ANTH 254	Survey II: Human Prehistory	
BIO 109	Introduction to Marine Biology	
BIO 308	Vertebrate Natural History	
BIO 312	Evolution	
BIO 316	Conservation Biology	
BIO 323	Ecology	
BIO 332	Ornithology	
CHEM 102	Chemistry in Everyday Life	
MATH 107	Mathematics for Sustainability	
<b>Arts and Humanities Elective</b>		
Select one of the following:		3
ART 236	Sustainable Textiles	
ART 274	Introduction to Design and the Environment	
ART 354	Picturing Biodiversity: The Art of Natural History	
ART 356	Environment in Contemporary Art	
ART 374	Design and the Environment Studio II	
EDUC 466	Communicating Climate Science	
ENLT 211	Animals in Literature and Society	
ENLT 213	Environmental Literature	
ENLT 251	African-American Literature	

ENVS 331	Human Ecology and Spirituality	
PHIL 254	Social Justice	
PHIL 256	Environmental Ethics	
RLST 351	Religion and Science	
<b>Microeconomics Course</b>		
ECON 252	Principles of Microeconomics	3
<b>Society and Environment</b>		
Select one one of the following:		3
ANTH 141	People and Nature	
ANTH 253	Survey I: Culture and Language	
SOC 203	Social Problems (approved sections)	
<b>Advanced Area Courses</b>		
Select three of the following:		9
ANTH 390	Special Topics	
COMM 307	Organizational Communication	
ECON 354	Economic Development	
ECON 390	Topics in Economics (Approved Sections)	
POSC 319	The Global Politics of International Development	
POSC 326	Global Environmental Politics	
SOC 306	Consumer Society	
<b>Required Supporting Courses</b>		
MATH 114	Introduction to Statistics <sup>1</sup>	3
	or MATH 346 Statistics	
Total Credits		24-25

<sup>1</sup> With program permission and permission of the relevant department, PSYC 324 Statistics in Psychology or SOC 371 Sociological Statistics Lab may be substituted for MATH 114 Introduction to Statistics.

### Nature, Culture, Arts Concentration

Code	Title	Credits
<b>Stem Elective</b>		
Select one of the following:		3-4
ANTH 254	Survey II: Human Prehistory	
BIO 109	Introduction to Marine Biology	
BIO 308	Vertebrate Natural History	
BIO 312	Evolution	
BIO 316	Conservation Biology	
BIO 323	Ecology	
BIO 332	Ornithology	
CHEM 102	Chemistry in Everyday Life	
MATH 107	Mathematics for Sustainability	
<b>Environment and Society Elective</b>		
Select one of the following:		3
ANTH 141	People and Nature	
ANTH 253	Survey I: Culture and Language	
COMM 307	Organizational Communication	
ECON 354	Economic Development	
ECON 390	Topics in Economics (Approved Sections)	
JUST 250	Introduction to Justice Studies	
POSC 319	The Global Politics of International Development	
POSC 326	Global Environmental Politics	
SOC 203	Social Problems (approved sections)	

SOC 306	Consumer Society	
<b>Explorations Courses</b>		
Select four of the following: <sup>1</sup>		12
ANTH 253	Survey I: Culture and Language	
ART 236	Sustainable Textiles	
ART 274	Introduction to Design and the Environment	
ART 354	Picturing Biodiversity: The Art of Natural History	
ART 356	Environment in Contemporary Art	
ART 374	Design and the Environment Studio II	
EDUC 466	Communicating Climate Science	
ENLT 211	Animals in Literature and Society	
ENLT 213	Environmental Literature	
ENLT 251	African-American Literature	
ENVS 331	Human Ecology and Spirituality	
HUST 103	Lives and Times (approved sections)	
PHIL 254	Social Justice	
PHIL 256	Environmental Ethics	
RLST 351	Religion and Science	
<b>Theoretical Applications Course</b>		
Select one of the following:		3
ANTH 320	Anthropology of Race and Racism	
ANTH 346	Gender in Cross-Cultural Perspective	
ANTH 390	Special Topics (approved topics)	
ENLT 385	Critical Theory	
GWS 350	Feminist Theory	
Total Credits		21-22

<sup>1</sup> No more than two courses may be taken in a single discipline (as indicated by course prefix).

### Spirituality, Justice, Ethics Concentration

Code	Title	Credits
<b>STEM Elective</b>		
Select one of the following:		3-4
ANTH 254	Survey II: Human Prehistory	
BIO 109	Introduction to Marine Biology	
BIO 308	Vertebrate Natural History	
BIO 312	Evolution	
BIO 316	Conservation Biology	
BIO 323	Ecology	
BIO 332	Ornithology	
CHEM 102	Chemistry in Everyday Life	
MATH 107	Mathematics for Sustainability	
<b>Arts and Culture Elective</b>		
Select one of the following:		3
ANTH 141	People and Nature	
ANTH 253	Survey I: Culture and Language	
ART 236	Sustainable Textiles	
ART 274	Introduction to Design and the Environment	
ART 354	Picturing Biodiversity: The Art of Natural History	
ART 356	Environment in Contemporary Art	
ART 374	Design and the Environment Studio II	
COMM 307	Organizational Communication	

ECON 390	Topics in Economics (Approved Sections)	
EDUC 466	Communicating Climate Science	
ENLT 211	Animals in Literature and Society	
ENLT 213	Environmental Literature	
ENLT 251	African-American Literature	
SOC 306	Consumer Society	
<b>Environment and Spirituality</b>		
RLST 240	Catholic Social Thought	3
or RLST 251	The Christian Tradition	
<b>Environment and Justice</b>		
Select one of the following:		3
JUST 250	Introduction to Justice Studies	
PHIL 254	Social Justice	
<b>Environmental Ethics</b>		
PHIL 256	Environmental Ethics	3
<b>Advanced Courses</b>		
Select two courses in any suitable SJE topic from the following: <sup>1</sup>		6
ENVS 331	Human Ecology and Spirituality	
JUST 301	The Quest for Human Rights	
PHIL 354	Ethics	
POSC 319	The Global Politics of International Development	
RLST 351	Religion and Science	
Total Credits		21-22

<sup>1</sup> A 3-credit internship may be substituted for one advanced course.

## Advanced Writing Proficiency

Students fulfill this proficiency requirement by receiving approval for a portfolio of three writing projects drawn from multiple disciplines contributing to environmental studies. The portfolio will include the paper completed in ENVS 495 Comprehensive Project Seminar; the other two projects included will vary with the student's major concentration and selection of courses.

## Senior Comprehensive

The Senior Comprehensive requirement in Environmental Studies is fulfilled by successful completion of ENVS 495 Comprehensive Project Seminar and department approval of the paper and oral presentation based on the student's comprehensive project.