ENVIROMENTAL STUDIES,  
BACHELOR OF ARTS - ENVS  

Major Requirements (40-75 Hours)  
The following are required. In addition, at least one concentration must be selected.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 161</td>
<td>Introduction to Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 171</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 217</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>COMM 418</td>
<td>Seminar on Women, Leadership, and Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 385</td>
<td>Interdisciplinary Environmental Research</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 386</td>
<td>Current Issues in Environmental Studies</td>
<td>1</td>
</tr>
<tr>
<td>ENVS 495</td>
<td>Comprehensive Project Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration  
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  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 256</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 316</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>or BIO 323</td>
<td>Ecology</td>
<td></td>
</tr>
</tbody>
</table>

Environmentally-Related Science Elective  
Select one of the following: 3-4
- BIO 308 Vertebrate Natural History  
- BIO 316 Conservation Biology  
- BIO 323 Ecology  
- CHEM 311 Thermodynamics  
- PHYS 235 Nuclear Astrophysics  
- PHYS 215 Materials Science  
- PHYS 343 Thermodynamics

Area Focus Courses  
Select four courses from one of the following areas: 12-13
- Applied Mathematics:  
  - MATH 231 Calculus III  
  - MATH 326 Linear Algebra and Differential Equations  
  - MATH 335 Differential Equations II  
  - or MATH 339 Numerical Analysis  
  - MATH 381 Mathematical Modeling

Earth and Water Science (at Notre Dame):  
- CE 20110 Planet Earth

Required Supporting Courses  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>Principles of Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 122</td>
<td>Principles of Chemistry II</td>
<td></td>
</tr>
<tr>
<td>PHYS 121</td>
<td>General Physics I: Mechanics and Waves</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 122</td>
<td>General Physics II: Temperature, Electricity, and Light</td>
<td></td>
</tr>
<tr>
<td>MATH 131</td>
<td>Calculus I</td>
<td>4-8</td>
</tr>
<tr>
<td>&amp; MATH 132</td>
<td>Calculus II</td>
<td></td>
</tr>
</tbody>
</table>
or MATH 133 Theory and Application of Calculus

Select one of the following: 3-6
- MATH 345 Probability and Statistics (Applied Mathematics focus)  
- ACMS 30440 Probability and Statistics (Earth & Water Science focus)

Total Credits: 45-54

Global Environmental Policy Concentration  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

STEM Elective  
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

Arts and Humanities Elective  
Select one of the following: 3
- ART 236 Sustainable Textiles  
- ART 354 Picturing Biodiversity: The Art of Natural History  
- ART 356 Environment in Contemporary Art  
- 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

Microeconomics Course  
- ECON 252 Principles of Microeconomics 3
Environmental Studies, Bachelor of Arts - ENVS

Society and Environment
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)

Advanced Area Courses
Select three of the following: 9
- ANTH 390 Special Topics
- ECON 354 Economic Development
- POSC 319 The Global Politics of International Development
- POSC 326 Global Environmental Politics
- SOC 306 Consumer Society

Required Supporting Courses
- MATH 114 Introduction to Statistics 3
  or MATH 346 Statistics 3

Total Credits 24-25

1 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

Stem Elective
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

Environment and Society Elective
Select one of the following: 3
- ANTH 141 People and Nature
- ANTH 253 Survey I: Culture and Language
- ECON 354 Economic Development
- GWS 240 Gender and Environmental Justice
- 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

Explorations Courses
Select four of the following: 1 12
- ANTH 253 Survey I: Culture and Language
- ART 236 Sustainable Textiles
- ART 354 Picturing Biodiversity: The Art of Natural History
- ART 356 Environment in Contemporary Art
- 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

Theoretical Applications Course
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

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

Spirituality, Justice, Ethics Concentration

STEM Elective
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

Arts and Culture Elective
Select one of the following: 3
- ANTH 141 People and Nature
- ANTH 253 Survey I: Culture and Language
- ART 236 Sustainable Textiles
- ART 354 Picturing Biodiversity: The Art of Natural History
- ART 356 Environment in Contemporary Art
- 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

Environment and Spirituality
- RLST 240 Catholic Social Thought 3
  or RLST 251 The Christian Tradition

Environment and Justice
Select one of the following: 3
- JUST 250 Introduction to Justice Studies
- GWS 240 Gender and Environmental Justice
- PHIL 254 Social Justice

Environmental Ethics
PHIL 256  Environmental Ethics  3

Advanced Courses
Select two courses in any suitable SJE topic from the following: 1  6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 331</td>
<td>Human Ecology and Spirituality</td>
</tr>
<tr>
<td>JUST 301</td>
<td>The Quest for Human Rights</td>
</tr>
<tr>
<td>PHIL 354</td>
<td>Ethics</td>
</tr>
<tr>
<td>POSC 319</td>
<td>The Global Politics of International Development</td>
</tr>
<tr>
<td>RLST 351</td>
<td>Religion and Science</td>
</tr>
</tbody>
</table>

Total Credits  21-22

1 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.