ENVIRONMENTAL STUDIES (BA)

Director: Erin Robinson, PhD

Introduction

Environmental problems are more visible in our society than ever before. In order to address these issues, there is an ever present need to develop an understanding of the social and natural systems that foster the creation and resolution of environmental issues. Cultural, economic, and social systems provide the structure within which environmental problems are created and solved.

The Environmental Studies BA focuses on interdisciplinary connections between environmental and social systems. The program engages students to think critically about environmental issues and offers active learning experiences for students to apply their knowledge. Combining environmental science with social sciences, business and economics, and humanities ensures an integrated perspective on environmental issues which lays a foundation for a wide range of careers. The interdisciplinary nature of the program allows students to combine ways of knowing which fully address the multiple facets and complex systems of environmental issues. Students take a series of required courses for the major and then select a specialization option to further focus their knowledge.

Major Tracks

Environmental Studies majors can select a specialization track made up of five courses. Specialization Tracks include Environmental Justice, Environmental Conservation and Administration, Sustainable Economics, Environmental Literacy and Public Health. Students can specialize in one area, or select a combination of electives from different tracks that best meet their interests. Each student will select four electives and an internship.

All Environmental Studies majors will complete an internship (EVST 498). Internship opportunities will range from local and regional opportunities to international opportunities through partnerships with well-established environmental organizations.

Qualifications

Students must maintain a 2.0 GPA in their major, earn a C or higher in all required courses in the major, and earn a 2.0 overall average to graduate with a degree in Environmental Studies.

Advisement

All students should have an advisor in the major and should contact the department directly to have an advisor assigned if they do not already have one. Meetings with academic advisors are required prior to students receiving their PIN for course registration each semester. All majors should work closely with their advisor in discussing career expectations, choosing their major electives, developing their entire academic program and planning their co-curricular or supplemental academic experiences.

Students should consult with Dr. Erin Robinson, Director of Environmental Studies, for current advisement information. Students are advised to be familiar with their Griff Audit.

Double Majors

Students who wish to expand their educational opportunities may decide to declare a double major. This decision may be based on career goals, planned graduate studies, and/or other student interests. Before a student declares a double major, it is important to meet with the appropriate academic departments for advisement. In order to declare a double major, the student must complete the Major/Minor Declaration form. This form will be submitted electronically and reviewed and approved by each department chairperson as well as the appropriate associate dean.

Per college policy, each additional major requires a minimum of 15 credits that do not apply to the student’s first or subsequent major. Some double major combinations can be completed within the minimum 120 credit hour degree requirement, but in other cases additional course work may be required. Please note that students will receive only one degree, regardless of the number of majors they complete. Both (all) majors appear on a student’s transcript.

Minors in Other Disciplines

Minors provide students the opportunity to pursue additional interests but generally do not require as many courses as a major. Minors generally range from five to eight required courses. To receive a minor, the student must complete at least 9 credit hours of coursework distinct from their other credentials (i.e., majors, other minors). The complete list of minors is available on the Canisius website (https://www.canisius.edu/academics/programs/undergraduate/?type%5B%5D=17) and in the catalog (https://catalog.canisius.edu/undergraduate/minors/) and provides links to each minor. Some majors and minors can be completed within the minimum 120 credit hour degree requirement, but in some cases additional coursework may be required. Students must complete the appropriate minor request form.

Curriculum

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All undergraduate students must complete either the Canisius Core Curriculum (http://catalog.canisius.edu/undergraduate/academics/core-curriculum/) or the All-College Honors Curriculum (http://catalog.canisius.edu/undergraduate/academics/core-curriculum/all-college-honors-program/). Many schools refer to their college-wide undergraduate requirements as “general education” requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

Free Electives

Students may graduate with a bachelor’s degree with more but not less than 120 credit hours. Free electives are courses in addition to the Canisius Core Curriculum or All-College Honors Curriculum and major requirements sufficient to reach the minimum number of credits required for graduation. The number of credits required to complete a bachelor’s degree may vary depending on the student’s major(s) and minor(s).

Major Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECO 101</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>EVST 110</td>
<td>Science of Environmental Problems I</td>
<td>3</td>
</tr>
<tr>
<td>EVST 111</td>
<td>Science of Environmental Problems II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 234</td>
<td>Environment and Society</td>
<td>3</td>
</tr>
</tbody>
</table>
Environmental Studies (BA)

PHI 244 Environmental Ethics or RST 347 Ecotheology

Select 1 of the following Research Methods courses:

- HSV 303 Research Methods in the Social Sciences
- SOC 375 Ethnography and Culture
- SOC 342 Quantitative Research Methods

Select 1 of the following Geographical Information Systems (GIS) courses:

- ECO 310 Introduction to Geographic Information Systems
- ECO 311 Metropolitan Economic Development and GIS
- SOC 315 Geographical Information Systems (GIS) for the Social Sciences

Select 4 Major Electives

SOC 324 Visual Sociology
EVST 498 Internship

Total Credits 37-39

Major Electives
A student's electives must be 4 courses from any of the designated major tracks.

Environmental Justice Track
Focuses student attention on social and environmental justice through the use of critical thinking of structural problems and how these issues are applied to environmental problems and human society.

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EVST 250</td>
<td>Narratives of Nature and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 273</td>
<td>Social Movements and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>SOC 340</td>
<td>Sociology of the City</td>
<td>3</td>
</tr>
<tr>
<td>PHI 245</td>
<td>Animal Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 329</td>
<td>Leadership and Motivation</td>
<td>3</td>
</tr>
<tr>
<td>EVST 235</td>
<td>Environmental Policy</td>
<td>3</td>
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</table>

Environmental Conservation and Administration
Focuses student attention on the movements for conservation practices and the legal, historical, and organization implications for the welfare of the environment.

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<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>EVST 259</td>
<td>Environmental History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>COM 302</td>
<td>Strategic Communication in Teams</td>
<td>3</td>
</tr>
<tr>
<td>ENT 101</td>
<td>Experiential Entrepreneurship: Creativity, Innovation, Opportunity, and Idea Generation</td>
<td>3</td>
</tr>
<tr>
<td>PSC 242</td>
<td>International Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EVST 235</td>
<td>Environmental Policy</td>
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</tr>
</tbody>
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Sustainable Economics
Focuses student attention on the development of sustainable business practices from a systems approach. Enables students to develop an understanding of the nature of green economic practices.

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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENT 101</td>
<td>Experiential Entrepreneurship: Creativity, Innovation, Opportunity, and Idea Generation</td>
<td>3</td>
</tr>
<tr>
<td>ENT 314</td>
<td>Social Entrepreneurship and Sustainability</td>
<td>3</td>
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MGT 440 Global Supply Chain Management 3
EVST 235 Environmental Policy 3

Environmental Literacy and Public Health
Focuses student attention on the role of information literacy in environmental issues. Allows for critical perspective and analysis of the role of science, risk, and communication in society today.

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<tr>
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<tr>
<td>BIO 116</td>
<td>Disease: Myth and Reality</td>
<td>3</td>
</tr>
<tr>
<td>EVST 235</td>
<td>Environmental Policy</td>
<td>3</td>
</tr>
</tbody>
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Roadmap
Recommended Sequence for Major Courses

Freshman
Fall          Spring
EOO 110       EVST 111

Sophomore
Fall          Spring
Select one of the following: SOC 324

SOC 375
PHI 244 or RST 347

Junior
Fall          Spring
Select one of the following: Track Option Elective

SOC 375

Senior
Fall          Spring
EVST 498      Track Option Elective

Learning Goals & Objectives

Student Learning Goal 1
Environmental Studies Majors will Demonstrate knowledge of complex environmental systems and environmental issues in scientific, cultural, and social realms
Students will:
- Objective A: Evaluate information on political economy of environmental issues;
- Objective B: Articulate issues of social construction of science;
- Objective C: Articulate an integration of issues of environmental and social justice.

Student Learning Goal 2
Environmental Studies Majors will Demonstrate scientific literacy of environmental issues
Students will:
- Objective A: Demonstrate knowledge of complex theories of environmental problems;
• Objective B: Develop relevant research questions for environmental investigation;
• Objective C: Use methods and tools of environmental research, including statistical analysis, GIS, and other techniques, to address relevant research questions.

Student Learning Goal 3
Environmental Studies Students will Demonstrate readiness to enter post graduate career and educational opportunities Students will:
• Objective A: Demonstrate skills needed to compete in green careers, for example grant writing and oral communication;
• Objective B: Complete an internship with an established environmental organization;
• Objective C: Collaborate with local, regional, national, and/or international professionals in environmental career and post graduate educational settings;

Courses
EVST 110 Science of Environmental Problems I 3 Credits
Environmental problems are defined as problems that result from interactions between humans and the natural environment. This course is designed to provide a conceptual framework for understanding and analyzing environmental problems, an introduction to the scientific basis of key environmental problems, and an introduction to scientific solutions to environmental problems.
Fulfills College Core: Field 6 (Natural Sciences)

EVST 111 Science of Environmental Problems II 3 Credits
This course is designed to provide a conceptual framework for understanding and analyzing environmental problems, to the scientific basis of key environmental problems abnd their solutions. An extension from EVST 110.
Fulfills College Core: Field 6 (Natural Sciences)

EVST 235 Environmental Policy 3 Credits
This course key issues within environmental policy. As well as exploring the history and origins of policy, we will explore some of the key debates such as eco-centrism versus anthropocentrism, animal rights, global justice and our obligations to future generations. Key concepts will include local, state, national, and internation policy perspectives; views of democrac and social justice. Reference will be made to other strands of environmental policy and contemporary political theory such as liberalism, socialism, feminism, nationalism and anarchism.
Offered: Fall

EVST 250 Narratives of Nature and Culture 3 Credits
Narratives--stories--are one of the primary tools humans use to shape their understanding of themselves and their environment. Course examines non-fiction, creative non-fiction and fictional narratives to identify origins and elaborations of stories we tell about nature and culture as they impact our relationships to our environments.
Prerequisites: ENG 111 and ENG 112 or HON 101.
Fulfills College Core: Field 5 (Social Sciences)
Offered: once a year.

EVST 259 Environmental History of the United States 3 Credits
This course examines the evolving relationship between humans and the nonhuman natural world in the United States. Topics include the ecological implications of the arrival of African and European peoples in North America, westward expansion, impacts of industrialization, the industrialization of agriculture, and the development of ecological consciousness.
Fulfills College Core: Field 4 (History)

EVST 360 Environmental Health 3 Credits
Environmental effects on human health, including biological, physical and chemical hazards in water soil, and air. Course focuses on public health and epidemiological study approaches. Emerging issues also discussed.
Offered: occasionally.

EVST 498 Internship 1-3 Credits
Students will have the opportunity to participate in the daily work of an environmental agency or organization. Students assume responsibility for daily work and, upon agreement with the instructor and site supervisor, a reflection journal, a research paper and 120 hours of work on-site.
Prerequisite: permission of chair & associate dean.

EVST 499 Independent Study 1-4 Credits
Study and work with a faculty supervisor. Project to be determined by faculty agreement. Independent studies require an application and approval by the associate dean.
Prerequisite: permission of the instructor, department chair, & associate dean.

3+3 Accelerated BA/BS-JD Program

Director: Robert Klump (klump@canisius.edu), Esq. at 716.888.2884

The 3+3 Accelerated BA/BS-JD program (https://www.canisius.edu/academics/programs/pre-law/33-accelerated-ba-or-bs-plus-jd/) through the University at Buffalo School of Law (https://www.law.buffalo.edu/admissions/3-plus-3.html) is open to a variety of majors. By participating, you can:

• Complete your undergraduate education and law degree in less time (and for less cost) than the 7 years typically required
• Become fully eligible for scholarships and grants offered to qualified incoming students at the University at Buffalo School of Law
• Upon successful completion of the first-year curriculum at UB Law School, a student’s credits for the year will be transferred to Canisius to complete his or her bachelor’s degree which will then be conferred by Canisius.

Eligibility

This unique program is open to pre-law students who:

sociology/) and Strategic Communication (http://catalog.canisius.edu/undergraduate/college-arts-sciences/communication-studies/).

- Take the LSAT or GRE no later than January of their junior year*
- Apply to the UB School of Law no later than February 1 of their junior year
- Complete all academic requirements toward their major by the end of their junior year
- Maintain a cumulative GPA at Canisius of 3.5 or higher

*The LSAT score must be at or above the median LSAT score for the UB School of Law’s previous year’s enrolled class or the GRE score must be at or above the 70th percentile for Verbal Reasoning and the 40th percentile for Quantitative Reasoning.

For more information, contact the Raichle Center director.

### 3+3 Environmental Studies BA/JD Roadmap

#### Freshman

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<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ENG 111</td>
<td>ENG 112</td>
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<tr>
<td>RST 101</td>
<td>PHI 101</td>
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<tr>
<td>Attribute: Global Awareness</td>
<td>Field 7: Mathematical Sciences</td>
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<tr>
<td>EVST 110</td>
<td>EVST 111</td>
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<tr>
<td>ECO 101</td>
<td>HSV 303 or ANT 351</td>
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#### Sophomore

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<th>Fall</th>
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<tr>
<td>Field 1: Religious Studies and Theology</td>
<td>Field 2: Philosophy</td>
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<tr>
<td>Attribute: Justice</td>
<td>Attribute: Ethics*</td>
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<tr>
<td>Skills: Advanced Writing-Intensive</td>
<td>Attribute: Diversity</td>
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<tr>
<td>SOC 234</td>
<td>ECO 310, 311, or SOC 315</td>
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<tr>
<td>PHI 244 or RST 347</td>
<td>Track Option Elective</td>
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#### Junior

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<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Field 3: Literature and Arts</td>
<td>Field 4: History</td>
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<tr>
<td>Field 5: Social Sciences</td>
<td>Field 6: Natural Sciences</td>
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<tr>
<td>Skills: Oral Communication</td>
<td>Track Option Elective</td>
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<td>Track Option Elective</td>
<td>SOC 324</td>
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<tr>
<td>Track Option Elective</td>
<td>Capstone</td>
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<tr>
<td>Track Option Elective</td>
<td>EVST 498</td>
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#### Senior

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<tr>
<th>Fall</th>
<th>Spring</th>
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<tr>
<td>1st year JD courses taken at UB</td>
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<tr>
<td>LAW 509: Torts</td>
<td>LAW 505: Criminal Law</td>
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<tr>
<td>LAW 501: Civil Procedure</td>
<td>LAW 507: Property</td>
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<tr>
<td>LAW 503: Contracts</td>
<td>LAW 511: Constitutional Law</td>
</tr>
<tr>
<td>LAW 515: Legal Analysis, Writing and Research I</td>
<td>LAW 515: Legal Analysis, Writing and Research II</td>
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**Attributes** - Can be fulfilled using a variety of courses including Field of Knowledge courses and electives with attribute designation

- Justice

- Diversity
- Global Awareness
- Advanced Writing Intensive - Must be at the 200-level or above
- Oral Communication Skills

* Ethics is required of all students

Note: All students must complete a total of 60 hours of Arts and Science courses. We strongly recommend that all students run a Griff Audit to check for this and any other additional requirements.