You can follow PitE on numerous social networking sites!
# Table of Contents

Introduction .................................................................................................................. 2  
Mission Statement ...................................................................................................... 2  
Faculty Associates ..................................................................................................... 2  
Contact Us ................................................................................................................ 2  
Program Staff .......................................................................................................... 2-3

The Environment Major and Minor ........................................................................ 3-5  
Advanced Placement and Transfer Credit ............................................................... 3  
Field Experience ....................................................................................................... 3-5  
The Specialization Requirement ............................................................................ 5  
Honors Program ....................................................................................................... 5

Student Services ....................................................................................................... 6-7  
Communication from the Program ........................................................................ 6  
Advising .................................................................................................................... 6  
Class Permissions (Overrides) ............................................................................... 6  
Independent Study ................................................................................................... 6  
Graduation and Official Degree Audit ................................................................... 7

Career Resources ...................................................................................................... 7  
PitE Resources .......................................................................................................... 7  
The U-M Career Center ........................................................................................... 7  
Graduate Study & Web Resources ........................................................................ 7

Appendix .................................................................................................................... 8  
Environment Major Worksheet ............................................................................... 9-10  
Commonly Approved Specializations List ............................................................. 11-12  
Specialization Worksheet .................................................................................... 13  
Environment Minor Work ...................................................................................... 14  
Culture and Environment Courses ....................................................................... 15-16  
Environmental Natural Science Courses ............................................................... 17-18  
Environmental Social Science Courses ................................................................. 19-20  
Sustainability Minor Worksheet ............................................................................ 21  
Sustainability Minor Course Lists ......................................................................... 22-23  
Food and the Environment Minor Worksheet ....................................................... 24  
Food and the Environment Minor Course List ...................................................... 25  
Energy and the Environment Minor Worksheet ..................................................... 26  
Energy and the Environment Minor Course List .................................................... 27  
Water and the Environment Minor Worksheet ...................................................... 28  
Water and the Environment Minor Course List .................................................... 29-30
Introduction

Mission Statement
“The Program in the Environment’s mission is to develop environmentally informed citizens and leaders through an undergraduate program that balances rigorous environmental studies in many disciplines, hones practical problem-solving skills, and fosters intellectual risk taking.”

Faculty Associates
Because the Program curriculum is interdisciplinary, we draw our faculty from many academic disciplines including natural resources, biology, economics, political science, psychology, geology, public health, engineering, history and English. Our faculty associates have committed to participate in the Program, teaching Program courses or advising Program students. For a complete list of our faculty associates, see our website at http://www.lsa.umich.edu/pite/people/facultyassociates.

Contact Us
Our offices are located in 1120 Undergraduate Science Building. Our office hours are 8:30am-5:30pm, Monday-Friday. You may also reach us at (734) 615-7346 or environment.program@umich.edu.

Program Staff

Appointment Scheduling
Please visit the online scheduling system on the academic advising webpage:
http://wwwlsa.umich.edu/pite/academics/advising

Jaime Langdon, Advisor/Student Services
(734) 764-6372  jlangdon@umich.edu
Major & Minor Advising, Academic Policies & Procedures, Honors Program, Practical Experience, Specializations, PitE Student Group, Prospective Student Contact

Kimberly Smith, Advisor/Student Services
(734) 763-4928  ksmithz@umich.edu
Major & Minor Advising, Academic Policies & Procedures, Practical Experience, Specializations, Scholarships & Funding Requests
The Environment Major and Minor

Advanced Placement and Transfer Credit
You must report a score 4 or 5 on the Advanced Placement Environmental Science test to receive credit for ENVIRON 201 Ecological Issues. This credit will satisfy the Introductory Interdisciplinary Course prerequisite in the major. We also accept AP credit for other major prerequisites such as BIO 195 (meets BIO 171), CHEM 130, ECON 101 and MATH 120 (meets MATH 115). However, AP credit MAY NOT be used to satisfy ANY department Minor requirements.

Practical Experience
The Practical Experience seeks to cover a broad set of material and ideas in setting where much of the learning is by doing. Evaluation is through combinations of exams, papers, and presentations. All field experiences include a research component, involving question formulation, information/data collection, analysis, discussion, and integration with the larger arena of environmental questions.

You may complete your Practical Experience in one of three ways:

1. **Approved Residential Field Course** (3 or more credit hours)
The goals of the Practical (field) Experience requirement may be met by taking approved courses at a residential field station. Acceptable courses cover a body of information and concepts on various topics, with a dominant active, experiential learning approach to instruction through field work. Approved residential field courses are offered through several programs. Two programs are offered at University-owned field stations:

   1. The University of Michigan Biological Station (UMBS) in northern-lower Michigan offers various biological science and humanities courses during the spring and summer terms, including EEB 381, Ecology lecture and lab requirement.

   2. The Camp Davis Field Station in Jackson Hole, Wyoming offers geology, environmental science and humanities courses during the summer term, including PitE prerequisites EARTH 116: Geology. EARTH 450: Ecosystem Science of the Rockies, meets the PitE Ecology lecture and lab requirement.

   3. Additional University programs approved for the Field Experience are the New England Literature Program (NELP), offering several courses at its Maine location.

2. **Study Abroad Programs** (3 or more credit hours)
The Practical Experience requirement can also be satisfied by certain field courses whose content relates predominantly to the environment; these are taught at sites around the globe. As with residential field courses, acceptable courses cover a body of information and concepts on various topics, using active, experiential learning approaches to instruction through field work. Two full-semester programs offered by Center for Global and Intercultural Study (G155 Angell Hall) are already approved for meeting the PitE Practical Experience requirement. There are several programs including Environmental and Sustainable Development in Costa Rica,
Frontier’s Abroad and EcoQuest in New Zealand, Thailand’s Development and Globalization program, Environmental and Sustainability Studies in Denmark, or Oxford’s Environment and British Landscape summer program. U-M students must apply through CGIS for either of these programs.

“Study Abroad” in the United States!
There are also several programs within other departments that can be used to meet the PitE Practical Experience requirement that don’t require international travel. Semester in Detroit (SiD) administered by the Residential College. Another program is Michigan in Washington administered by Political Science Department.

In addition, other non-U-M international field programs are offered by organizations such as the CIEE, School for Field Studies (SFS), the School for International Training (SIT), Wildlands Studies, Swan Valley Connections, and other field study organizations. Some international universities also offer courses that MAY satisfy the Practical Experience requirement. These courses must be PRE-APPROVED (before attending the program) by the PitE Advisor who will evaluate them to determine if they meet program Practical Experience requirements. For more information on international study programs, please contact the Program in the Environment or CGIS.

3. Internship (3 credit hours)
An internship can take many forms. Acceptable internships involve applying ideas and knowledge from coursework into an experience in which active, experiential learning occurs by working directly on an environmental issue. Internships may include working with a governmental agency, a non-governmental organization or a private business, where there are predominant environmental aspects to your work.

New Michigan Internship Learning Experience (MILE) Program
Doing an internship for academic credit involves more than just accumulating hours and completing day-to-day internship tasks. In order to receive credit for these experiences students in PitE must also complete an internship research project and engage in a series of reflective activities before, during, and after the internship experience.

In PitE, all required assignments and activities are outlined and submitted though the MILE – an online program designed to help orient students to the internship process and make the most of their experience.
https://ctools.umich.edu/portal/site/a50e0dbf-8d6c-4e29-89f6-8d07cddb85b0

The Specialization Requirement
The specialization requirement is for MAJORS ONLY (this is not required for any MINOR) and is intended to encourage you to develop a measure of depth in a particular area, however this area is defined, and to give you the opportunity to explore your own special interests. The specialization requirement within your major is made up of three courses of your choice at the 300-level or above that relate to one another in some way. The three courses elected should together provide a meaningful sequence of courses.
Each month (usually mid-month) the Specialization Committee will meet to review course choices that have been submitted. You can submit your specialization choices at any time, but you must receive final approval by the end of your junior year. To submit your specialization, please go to the LSA PitE website: http://lsa.umich.edu/pite/majors/specialization.html. If it is not approved, you will receive an email with suggestions on how to reformat your specialization.

**Honors Program**

The Honors Program entails a two-year, 9-credit-hour sequence starting in the Winter term of the student’s junior year with ENVIRON 399 (3 credits), culminating in the completion of an Honors thesis with ENVIRON 499 (6 credits) at the end of senior year. The thesis is a substantial scholarly project carried out with the supervision of a faculty advisor. Successful completion of an Honors thesis is recognized by an honors designation (either “with Highest Honors,” “with High Honors,” or “with Honors”) placed on the diploma and the transcript. Decisions about the designation are based on faculty evaluation of the Honors thesis.

The Honors Program is open to all students who have achieved a cumulative grade point average of 3.50 or better. Other students below a 3.50 may request admission to the Honors Program by meeting with the Major Advisor to discuss the program. Students typically start the Honors Program during the winter semester of their junior year. **The Honors Program is not open to students who will be studying abroad during the winter semester of their junior year.**

**Student Services**

**Communication from the Program**

E-mail is the primary means we use to communicate with Program students. You are responsible for information we give you via e-mail. All majors and minors are automatically members of the Program e-mail group, environment.students@umich.edu. This allows you to receive messages regarding upcoming PitE events, academic deadlines, course announcements, funding opportunities, and co-curricular activities.

The Program in the Environment also has a Facebook group called “UM Program in the Environment” that is open to all members in the Michigan network. This is another way for Program staff to communicate with Program students and vice versa and for students to communicate with each other.

**Advising**

If you are considering declaring the major or minor in the Environment, you must register for an Information Session using the online scheduling system found on the Program website http://www.lsa.umich.edu/pite/majors/advising. Prerequisite and major and minor course requirements, as well as specific courses you may wish to take will be discussed. You may
declare the major or the minor at one of these information sessions. You can also find information regarding field placements and internships in the Program office.

**Class Permissions (Overrides)**
In order to enroll in Environment classes that are full or require permission of the instructor, you must obtain class permission (override) from the instructor of the course. Your instructor will email the department with your information, thus an override will be sent to your UMICH email address. Please add the course ASAP because the overrides expire after a certain number of days.

**Independent Study**
The Program offers an independent study course ENVIRON 300 for students pursuing either the major or the minor. You arrange independent study directly with a PitE faculty member. Class permission (see above) is required to register for ENVIRON 300. You and your faculty advisor should collectively email Jaime Langdon (jlangdon@umich.edu) to set up your independent study. She will then send an override to the student’s email address. This MUST be arranged before Drop/Add deadline during any semester.

**Graduation and Official Degree Audit**
When you are ready to graduate you should make an appointment with a PitE Advisor to discuss your remaining requirements with PitE and complete a major or minor release form, which is sent to the LSA Auditors (lsa.auditors@umich.edu). **Please note that if you are a major in PitE and still have not turned in your Specialization for approval, you will not be able to get your major release sent for your Official Degree Audit.** See page 5 for more information on the specialization requirement. You should arrange an Official Degree Audit no later than the two semesters prior to graduation (e.g. September 2016 if graduation will be May 2017.) Graduating students should also complete the online diploma application through Wolverine Access.

**Career Resources**

**PitE Resources**
The Program in the Environment has some resources specifically targeted to the environmental job search. These include:

- **“environ.jobs” e-mail group**: You are invited to subscribe to this e-mail group on the UM directory. We forward to it all relevant job and internship postings that come to the office.
- **PitE Wordpress Jobs/Internships Site**: [www.environcomm.wordpress.com/](http://www.environcomm.wordpress.com/)
  Environmental Protection Agency (EPA): [http://www.epa.gov/careers/](http://www.epa.gov/careers/)

**The U-M Career Center**
We encourage you to take advantage of the Career Center’s services. In its offices on the third floor of the Student Activities Building you can get resume and cover letter instruction and critiques, access a library of job search books, meet with a career counselor, and even practice your interviewing skills.
The Career Center organizes events throughout the year to help you learn more about various career options. They hold several job fairs, have a whole series dedicated to students with law-school plans, and host single seminars on topics from international employment to working for non-profits. http://careercenter.umich.edu/index.html.

Graduate Study
Graduates of the Program in the Environment go on to pursue a wide range of graduate studies. Graduate Programs such as medical school, veterinary school, law school, business school, public health, dental school, and Master’s and Doctoral programs. Every semester, PitE holds either a Graduate School Panel or a Career Panel.

Grad School Web Resources
- Environment Graduate Programs: http://www.gradschools.com/programs/environmental-science
- Graduate Guide: http://www.graduateguide.com/
- Getting Into Environment Grad Programs: http://www.enviroeducation.com/articles/best/
- Google “Environmental Graduate Schools” to narrow your program interest.
Environment Major Worksheet

This worksheet is to be used by Environment Majors in cooperation with the Major Advisor. It is the student’s responsibility to bring this form (or a copy of it) with her/him when meeting with an advisor. Major Advisors use this form to approve major release forms for graduation. Majors should meet with a LSA General Advisor to discuss Area Distribution and other general LSA requirements.

Name: ____________________________________________________  UMID: _______________________________________________________

Email: ____________________________________________________  Expected Graduation Date: ________________________________

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<tr>
<th>Requirement</th>
<th>Course</th>
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<td><strong>Environment Prerequisites</strong></td>
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<td>It is not necessary to complete all prerequisites before declaring the Environment Major.</td>
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<td><em>AP credit may be applied towards prerequisites.</em></td>
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<td>Introductory Interdisciplinary Course</td>
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<td>(Environ 101, 110, 111, 139, 201, or 270; CEE 260)</td>
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<td>Biology 171 (4cr) or Biology 195 (AP)</td>
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<td>Chemistry 130 (3cr) or AP or placement test into CHEM 210</td>
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<td>Earth 118 &amp; 119 (5cr) or Earth 116 (5cr) @ Camp Davis</td>
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<td>Econ 101 (4cr), ENV 208 (3cr), 211 (4cr), 235 (3cr), 290 (3cr)</td>
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<td>Math 115 (4cr) or Math 120 (AP)</td>
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<td><strong>Environment Core Courses</strong></td>
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<td>(Classes must be 200 level or above)</td>
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<td><em>These courses cannot double count toward the Specialization Requirement</em></td>
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<td>General Ecology (BOTH Bio/Environ 281 &amp; 372* OR EEB 381 @ UMBS OR Earth 450 @ Camp Davis)</td>
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<td>Analytics (choose one)</td>
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<td>(Stats 250, 280, SOC 210 or IOE 265)</td>
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<td>Culture and Environment (choose one)</td>
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<td>(from approved list or major advisor approved)</td>
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<td>Natural and Earth Systems Science (one)</td>
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<td>(Any 200 level or above Natural Science Course or major advisor approved *ENV 201 does NOT count)</td>
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<td>Social Science (choose two-one must 300 level or above)</td>
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<td>Senior Capstone (from approved list or advisor apprv)</td>
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### Practical Experience Requirement

*The experience can be satisfied by an internship or a residential field course that is taken for 3 credits or more. See Program office for pre-approval of this requirement.*

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<td>Practical Experience</td>
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### Specialization

*(3 related courses at 300 level or above as approved by Specialization Committee)*

*Must be approved by end of Junior year*

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<th>Requirement</th>
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### Totals

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_________________________________________________

Practical Experience

_________________________________________

Approval

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Date

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Specialization Title

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Practical Experience Approval

_____________________________

Date

_________________________________________

Specialization Approval

_____________________________

Date

**Cumulative Major GPA:**

(Minimum GPA required is 2.00)

Advisor Approval

_________________________________________

Date

_____________________________

Cumulative Major GPA

(See [http://lsa.umich.edu/pite/](http://lsa.umich.edu/pite/) for more information)
*Specializations require THREE - 300 level and above courses. Potential topics and courses are examples only. We encourage you to explore and create your own specialization.*

**Aquatics/Fish**
- Environ 311- Rivers, Lakes and Wetlands
- Environ 409-Ecology of Fishes
- Environ 422-Biology of Fishes
- EEB 380-Oceanography: Marine Ecology
- EEB 483-Freshwater Ecosystems: Limnology

**Environmental Business & Economics**
- Environ 367-Global Enterprise and Sustainable Development
- Environ 375/Econ 370-Environment and Resource Economics
- Environ/Earth 380-Mineral Resources, Economics and Environment
- Environ 448-Applied Research in Organizations and the Natural Environment
- Econ 330-American Industry
- STRAT 310-The World Economy
- STRAT 441-The Corporation and Society
- STRAT 445-The Base of the Pyramid

**Environmental Psychology/Education**
- Environ 360-Behavior and Environment
- Environ 361-The Psychology of Environmental Stewardship
- Environ 382-Introduction to Environmental Education for Sustainable Development
- Environ/Comm 413-Environmental Communication
- AAS/RCSSCI 330-Urban and Community Studies I

**Environmental Policy**
- Environ 306-Global Water
- Environ 312-Environmental Politics and Policy
- Environ 345/Soc 380-Environmental Public Opinion Analysis
- Environ 376-Environmental Ethics
- Environ 405-Urban Sprawl: Politics and Policy
- Environ 475-Environmental Law

**Terrestrial Ecology**
- Environ 337-Woody Plants
- Environ 430/EEB 489-Soil Property and Processes
- Environ/Earth 431-Terrestrial Biomes
- Environ/EEB 348-Forest Ecosystems

**Urban and Environmental Planning**
- Environ 350-The Built Environment
- Environ 360-Behavior and Environment
- Environ 370/UP 423-Introduction to Urban Planning
- Environ 405-Urban Sprawl
- Environ 408-Land Use Policy, Law and the Environment
- Environ 407-Sustainable Cities
Conservation Biology
- Environ 317-Conservation of Biological Diversity
- Environ 415-Behavioral Ecology & Conservation Biology
- Environ 421-Restoration Ecology
- EEB 476-Ecosystem Ecology
- EEB 485-Population and Community Ecology

Agriculture/Food
- Environ 318-Food, Land and Society
- Environ 430/EEB 489-Soil Ecology
- EEB 498-The Ecology of Agroecosystems
- ANTHRBIO 364-Nutrition and Evolution
- CLARCH/CLCIV 382-Food in the Ancient World: Subsistence and Symbol

Environmental Health/Toxicology
- Environ 308-Sustainability and Health
- Environ 310-Toxicology: The Study of Environmental Chemicals and Diseases
- Environ/EEB 315-Ecology and Evolution of Infectious Diseases
- AAS/ANTHRCUL 355-Health and Illness in African Worlds
- AAS/WMNSTD 365-Global Perspectives on Gender, Health and Reproduction
- AAS 462-Globalization and African Health
- EHS 500-Introduction to Environmental Health Sciences

Sustainability
- Environ 308-Sustainability and Health
- Environ 367-Global Enterprise and Sustainable Development
- Environ 382-Environmental Education for Sustainable Development
- Environ/RCIDIV 391-Sustainability and the Campus
- Environ 405-Urban Sprawl: Policy and Politics
- Environ 407-Sustainable Cities

Environmental Writing and Communication
- Environ 304-Writing and the Environment
- Environ 320-Environmental Journalism
- Environ 377-Literature and the Environment
- Environ/RCIDIV 390-Environmental Activism
- Environ/Comm 413-Environmental Communication
- RCIDIV 302-Social Justice? The Literature of Environmental Justice

Energy and the Environment
- Environ 407-Sustainable Cities
- Environ/Earth 333-Inexhaustible Seas? Marine Resources and Environmental Issues
- AAS 432-Violent Environments: Oil, Development and Discourse of Power
- POLSCI 336-Energy Policy
- RCNSCI 419/NRE 574 Sustainable Energy Systems (SENIORS with permission)
Specialization Approval Process

To complete the major in the Environment you are required to take a specialization of three related courses at the 300 level or above. To be completed by the end of your JUNIOR year. The Specialization requirement is intended to encourage you to develop a measure of depth in a particular area, however this area is defined, and to give you the opportunity to explore your own special interests. The three courses elected should together provide a meaningful sequence of courses.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

See Example!

Specialization Title:______________________________________________________

Courses to apply toward the specialization:

<table>
<thead>
<tr>
<th>Course Number (e.g. Environ 350)</th>
<th>Course Title (e.g. The Built Environment)</th>
<th>Semester Taken (e.g. Winter 2012)</th>
<th>Course location (e.g. UM Biostation; Ann Arbor)</th>
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</table>

(4th course optional)

Please write two paragraphs about how these three courses relate to each other. In the first paragraph, include at least one sentence for each of the three required courses, describing what you learned in each class. In the second paragraph, detail how the three courses relate to one another. What is the common thread among all three courses? Reflecting on why this specialization interests you (future career, grad school, etc) will also be helpful for the committee to examine in the approval process.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

You can access the specialization form in two ways:

Through the PitE website here which has further instructions: http://lsa.umich.edu/pite/majors/specialization.html

Directly at: http://goo.gl/forms/vMbfRnbK7W2FxbdH2
Minor in the Environment Worksheet

Name: __________________________________ UMID: __________________________________
Email: ___________________________ Expected Graduation Date: ___________________________

Major(s): ________________________________________________________________

ENVIRONMENT MINOR REQUIREMENTS (Minimum of 17 credits)

• 2 courses must be taken at the 300-level or above
• 10 of the 17 credits must be taken in residence

Introductory Interdisciplinary Course
(Environ 101, 110, 111, 139, 201, or 270 - NO AP credit USED in Minors)

Course: ____________________________ Credits: _______ Term Completed: _______

Environmental Natural Science (from approved list or major advisor approved
** ENV 201 EXCLUDED**)

Course: ____________________________ Credits: _______ Term Completed: _______

Environmental Social Science (from approved list or major advisor approved)

Course: ____________________________ Credits: _______ Term Completed: _______

Culture and Environment (from approved list or major advisor approved)

Course: ____________________________ Credits: _______ Term Completed: _______

Analytics or Field Experience

a) Analytics Course (CEE 270, Stats 250, Econ 404, 405, IOE 265)
Course: ____________________________ Credits: _______ Term Completed: _______

OR

b) Field Experience*
Course: ____________________________ Credits: _______ Term Completed: _______

Total Credits: _______

Other ENVIRON Courses:
_____________________________________________________________________________________

* The Field Experience can be satisfied by an internship or a residential field experience that is
taken for 3 credits or more. See Program office for pre-approval of this requirement.
**Culture and Environment Courses**  
*(courses are not offered every semester and are subject to change)*

Courses PREVIOUSLY approved for both major and minor but not limited to these courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title (credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 409/ANTHRCUL 408</td>
<td>Maternal/Child Health and Environmental Pollution in Africa (4)</td>
</tr>
<tr>
<td>AAS 432</td>
<td>Violent Environments: Oil, Development and Discourse of Power (3)</td>
</tr>
<tr>
<td>AAS 462</td>
<td>Globalization and African Health (3)</td>
</tr>
<tr>
<td>AMCULT/ANTHRCUL 316</td>
<td>Native American Peoples of North America (4)</td>
</tr>
<tr>
<td>ANTHRCUL/ANTHRBIO 342</td>
<td>Nature/Culture Now! (4)</td>
</tr>
<tr>
<td>ANTHRCUL 355</td>
<td>Health and Illness in African Worlds (4)</td>
</tr>
<tr>
<td>ANTHRCUL 439</td>
<td>Economic Anthropology and Development (3)</td>
</tr>
<tr>
<td>ANTHROBIO 364</td>
<td>Nutrition and Evolution (4)</td>
</tr>
<tr>
<td>ANTHRBIO 365</td>
<td>Human Evolution (4)</td>
</tr>
<tr>
<td>ARCH/HISTART 212</td>
<td>Understanding Architecture (3)</td>
</tr>
<tr>
<td>ARCH/HISTART 213</td>
<td>Buildings, Cities and People (4)</td>
</tr>
<tr>
<td>ARTDES 250</td>
<td>Art-Design Persp III: Tech/Environment (3)</td>
</tr>
<tr>
<td>ASIAN 257</td>
<td>Great Cities in Asia (4)</td>
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<tr>
<td>CLARCH/HISTART 220</td>
<td>Great Buildings of Ancient Greece and Rome (4)</td>
</tr>
<tr>
<td>CLARCH/HISTART 222</td>
<td>Intro to Roman Archaeology (4)</td>
</tr>
<tr>
<td>CLARCH/CLCIV 382</td>
<td>Food in the Ancient World: Subsistence and Symbol (3)</td>
</tr>
<tr>
<td>EEB 455</td>
<td>Ethnobotany (5) –Biostation Only</td>
</tr>
<tr>
<td>ENGLISH 382/AMCULT 328</td>
<td>Native American Literature (3)</td>
</tr>
<tr>
<td>ENVIRON 244</td>
<td>Topics in Culture &amp; Environment (1-4)</td>
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<tr>
<td>ENVIRON 256/ANTHRCUL 256</td>
<td>Culture, Adaptation, and Environment (3)</td>
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<tr>
<td>ENVIRON 270</td>
<td>Our Common Future (4)</td>
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<td>ENVIRON 301/HISTART 301</td>
<td>Nature, Culture and Landscape (3)</td>
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<td>ENVIRON 304</td>
<td>Topics in Culture and Environment (1-4)</td>
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<td>ENVIRON 320</td>
<td>Environmental Journalism (3)</td>
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<tr>
<td>ENVIRON 335/AAS 332</td>
<td>Introduction to Environmental Politics: Race, Class and Gender (3)</td>
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<tr>
<td>ENVIRON 350</td>
<td>The Built Environment: Introduction to Landscape Change (3)</td>
</tr>
<tr>
<td>ENVIRON 370/UP 423</td>
<td>Introduction to Urban and Environmental Planning (3)</td>
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<tr>
<td>ENVIRON/PHIL 376</td>
<td>Environmental Ethics (3)</td>
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<tr>
<td>ENVIRON 377/ENGL 320</td>
<td>Literature and the Environment (3)</td>
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<td>ENVIRON 464</td>
<td>Topics in Culture &amp; Environment (1-4)</td>
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<tr>
<td>HISTORY 373/AMCULT 373</td>
<td>History of the U.S. West (3-4)</td>
</tr>
<tr>
<td>HISTORY/ENVIRON 221</td>
<td>Global Environmental History (4)</td>
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<tr>
<td>HISTORY/ENVIRON 223</td>
<td>Trashed! A History of Garbage in the Modern World (4)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ITALIAN 310</td>
<td>Italian Cities (3)</td>
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<tr>
<td>PHIL/ENVIRON 240</td>
<td>Environmental Ethics (3)</td>
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<tr>
<td>PHIL 355</td>
<td>Contemporary Moral Problems (4)</td>
</tr>
<tr>
<td>PHIL 356</td>
<td>Issues in Bioethics (4)</td>
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<tr>
<td>PHIL 359</td>
<td>Law and Philosophy (4)</td>
</tr>
<tr>
<td>PHIL 361</td>
<td>Ethics (4)</td>
</tr>
<tr>
<td>PHIL 366</td>
<td>Introduction to Political Philosophy (4)</td>
</tr>
<tr>
<td>RCIDIV 305</td>
<td>The Literature of Environmental Justice (3)</td>
</tr>
</tbody>
</table>
Environmental Natural Science Courses  
*(courses are not offered every semester and are subject to change)*

For the Environment major and minor, any natural science course at the 200-level or above in Biology (BIOLOGY), Ecology and Evolutionary Biology (EEB), Environment (ENVIRON) Natural Science courses, Chemistry (CHEM), Geological Sciences (EARTH), Natural Resources and Environment (NRE) and Physics (PHYSICS) is acceptable for the major and minor requirement of Natural and Earth Systems Science requirement. This includes, but is not limited to the following list of courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title (credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRBC 201</td>
<td>Intro to Biological Anthropology (4)</td>
</tr>
<tr>
<td>BIOLOGY 255</td>
<td>Plant Diversity (4)</td>
</tr>
<tr>
<td>BIOLOGY 281</td>
<td>General Ecology (3) <em>For Minors Only</em></td>
</tr>
<tr>
<td>BIOLOGY 288</td>
<td>Animal Diversity (4)</td>
</tr>
<tr>
<td>BIOLOGY 482</td>
<td>Limnology (5)</td>
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<tr>
<td>CEE 230</td>
<td>Energy and the Environment (3)</td>
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<tr>
<td>CEE 360</td>
<td>Environmental Process Engineering (4)</td>
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<tr>
<td>CEE 428</td>
<td>Introduction to Groundwater Hydrology (3)</td>
</tr>
<tr>
<td>EEB 380</td>
<td>Oceanography: Marine Ecology (3)</td>
</tr>
<tr>
<td>EEB 381</td>
<td>General Ecology (5) – Biostation Only</td>
</tr>
<tr>
<td>EEB 463</td>
<td>Neotropical Plants (3)</td>
</tr>
<tr>
<td>EEB 472</td>
<td>Plant-Animal Interactions (3)</td>
</tr>
<tr>
<td>EEB 481</td>
<td>Population Dynamics and Ecology (4)</td>
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<tr>
<td>EEB 483</td>
<td>Limnology (3)</td>
</tr>
<tr>
<td>EEB 497</td>
<td>Community Ecology (3)</td>
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<tr>
<td>EEB 498</td>
<td>The Ecology of Agroecosystems (3)</td>
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<tr>
<td>ENVIRON 243</td>
<td>Topics in Natural Science (1-4)</td>
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<tr>
<td>ENVIRON 303</td>
<td>Topics in Natural Science (1-5)</td>
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<tr>
<td>ENVIRON 309</td>
<td>GIS Explorations of the Past, Present and Future (3)</td>
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<tr>
<td>ENVIRON 310</td>
<td>Environmental Chemicals and Diseases (3)</td>
</tr>
<tr>
<td>ENVIRON 311/EEB 320</td>
<td>Rivers, Lakes and Wetlands (4)</td>
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<tr>
<td>ENVIRON 315/EEB 315</td>
<td>The Ecology and Evolution of Infectious Diseases (3)</td>
</tr>
<tr>
<td>ENVIRON 317</td>
<td>Conservation of Biological Diversity (3)</td>
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<tr>
<td>ENVIRON 318/RCIDIV 318</td>
<td>Food, Land, and Society (6)</td>
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<tr>
<td>ENVIRON 348</td>
<td>Forest Ecology (5) – Biostation only</td>
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<tr>
<td>ENVIRON 409</td>
<td>Ecology of Fishes (3-4)</td>
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<tr>
<td>ENVIRON 415/EEB 424</td>
<td>Behavioral Ecology and Conservation Biology (4)</td>
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<tr>
<td>ENVIRON 421</td>
<td>Restoration Ecology (3)</td>
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<tr>
<td>ENVIRON 422</td>
<td>Biology of Fishes (3)</td>
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<tr>
<td>ENVIRON 430</td>
<td>Soil Ecology (3)</td>
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<td>Environ</td>
<td>Course Title</td>
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<tr>
<td>ENVR/EEB 436</td>
<td>Woody Plants (4)</td>
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<tr>
<td>ENVR 463</td>
<td>Topics in Natural Science (1-5)</td>
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<tr>
<td>ENVR/EEB 476</td>
<td>Ecosystem Ecology (3)</td>
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<tr>
<td>Earth 201/GEOG 201</td>
<td>Introductory Geography: Earth System Science (4)</td>
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<tr>
<td>Earth 202</td>
<td>Intro to Earth and Environmental Science (4)</td>
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<tr>
<td>Earth 205</td>
<td>How the Earth Works: The Dynamic Planet (2)</td>
</tr>
<tr>
<td>Earth 206</td>
<td>How the Earth Works: Water Cycle and Environment (2)</td>
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<tr>
<td>Earth 207</td>
<td>How the Earth Works: A Hands-On Experience (2)</td>
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<tr>
<td>Earth 222/ENVR 232</td>
<td>Introductory Oceanography (3)</td>
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<tr>
<td>Earth/ENV/HIST 238</td>
<td>Zoom: A History of Everything (3)</td>
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<tr>
<td>Earth 259</td>
<td>Earth’s Future and a Resilient Human Society (4)</td>
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<tr>
<td>Earth 277</td>
<td>Water in the 21st Century (3)</td>
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<tr>
<td>Earth 284</td>
<td>Environmental Geology (4)</td>
</tr>
<tr>
<td>Earth 305</td>
<td>Earth’s Surface and Sediments (4)</td>
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<tr>
<td>Earth 314</td>
<td>Global and Applied Geophysics (4)</td>
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<td>Earth 315</td>
<td>Earth Materials (4)</td>
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<tr>
<td>Earth/ENVR 325</td>
<td>Environmental Geochemistry (3)</td>
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<tr>
<td>Earth 331</td>
<td>Climate and Climate Change (4)</td>
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<tr>
<td>Earth/ENVR 333</td>
<td>Inexhaustible Seas? Marine Resrcs and Environ Issues (4)</td>
</tr>
<tr>
<td>Earth/ENVR 380</td>
<td>Mineral Resources, Economics and the Environment (4)</td>
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<tr>
<td>Earth 408/ENVR 403</td>
<td>GIS for Earth Sciences</td>
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<tr>
<td>Earth 417</td>
<td>Geography of the Great Lakes (2)</td>
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<tr>
<td>Earth/ENVR 431</td>
<td>Terrestrial Biomes: Past, Present and Future (3)</td>
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<tr>
<td>Earth/ENVR 442</td>
<td>Earth Surface Processes and Soils (4)</td>
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<tr>
<td>Earth 477/ENVR 479</td>
<td>Hydrogeology (4)</td>
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<tr>
<td>Publhlth 305</td>
<td>Environment and Public Health (4)</td>
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<tr>
<td>Publhlth 310</td>
<td>Nutrition in the Life Cycle (4)</td>
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<tr>
<td>Publhlth 311</td>
<td>Intro to Pub Health Genetics (4)</td>
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</tbody>
</table>
# Environmental Social Science Courses for the Program in the Environment Major and Minor

Courses PREVIOUSLY approved for both major and minor

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title (credit hours)</th>
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<tbody>
<tr>
<td>AAS 409/ANTHR 408</td>
<td>Maternal/Child Health and Environmental Pollution in Africa (4)</td>
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<tr>
<td>AAS 322/ENVIRON 335</td>
<td>Environmental Politics: Race, Class, Gender (4)</td>
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<tr>
<td>AAS 462</td>
<td>Globalization and African Health (3)</td>
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<tr>
<td>ANTHR 439/ANTHRBIO 342</td>
<td>Nature/Culture Now! (4)</td>
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<tr>
<td>ANTHR 439</td>
<td>Economic Anthropology and Development (3)</td>
</tr>
<tr>
<td>ARCH/UP 357</td>
<td>Architecture, Sustainability and the City (3)</td>
</tr>
<tr>
<td>CMPLXSYS/ENVIRON 250</td>
<td>Social Systems, Energy and the Public Policy (3)</td>
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<tr>
<td>ECON 330</td>
<td>American Industries (4)</td>
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<tr>
<td>ECON 360</td>
<td>The Developing Economies (3)</td>
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<td>ECON 370/ENVIRON 375</td>
<td>Environmental and Resource Economics (3)</td>
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<tr>
<td>ENVIRON/ORGSTUDY 203</td>
<td>Activism (3)</td>
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<tr>
<td>ENVIRON 207</td>
<td>Sustainability and Society (3)</td>
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<tr>
<td>ENVIRON/ORGSTUDY 208</td>
<td>Business and the Natural Environment (3)</td>
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<tr>
<td>ENVIRON 211</td>
<td>Social Sciences and Environmental Problems (4)</td>
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<tr>
<td>ENVIRON 222</td>
<td>Introduction to Environmental Justice (3)</td>
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<tr>
<td>ENVIRON 235</td>
<td>Economics of Natural Resources and Environment (3)</td>
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<td>ENVIRON 242</td>
<td>Topics in Environmental Social Science (1-4)</td>
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<td>ENVIRON/ANTRH 256</td>
<td>Culture, Adaptation and Environment (3)</td>
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<td>ENVIRON 290</td>
<td>Food: Ecology, Econ and Ethics of Growing and Eating (3)</td>
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<tr>
<td>ENVIRON 302</td>
<td>Topics in Environmental Social Science (1-4)</td>
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<td>ENVIRON 306</td>
<td>Global Water (3)</td>
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<tr>
<td>ENVIRON 308</td>
<td>Sustainability and Health (3)</td>
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<tr>
<td>ENVIRON 312/POLSCI 380</td>
<td>Environmental Politics and Policy (3)</td>
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<td>ENVIRON 313/POLSCI 384</td>
<td>Environment and Development (3)</td>
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<td>ENVIRON 321</td>
<td>Climate Change and Adaptation (3)</td>
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<td>ENVIRON 324</td>
<td>Intro to Water Law and Policy (3)</td>
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<td>ENVIRON 335/AAS 322</td>
<td>Intro to Environmental Politics: Race, Class, and Gender (4)</td>
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<td>ENVIRON 345/SOC 380</td>
<td>Environmental Public Opinion Analysis (3)</td>
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<tr>
<td>ENVIRON 360/PSYCH 384</td>
<td>Behavior and Environment (3)</td>
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<td>ENVIRON 361/PSYCH 385</td>
<td>Psychology of Environmental Stewardship (3)</td>
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<tr>
<td>ENVIRON 365</td>
<td>International Environmental Policy (3)</td>
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<tr>
<td>ENVIRON 367</td>
<td>Global Enterprise &amp; Sustainable Development (3)</td>
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<tr>
<td>ENVIRON 370/UP 423/ARCH 423</td>
<td>Introduction to Urban and Environmental Planning (3)</td>
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<tr>
<td>ENVIRON 382/EDCURINS 382</td>
<td>Intro to Environ. Education &amp; Sustainable Development (3)</td>
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<td>ENVIRON/RCIDIV 390</td>
<td>Environmental Activism (3)</td>
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<td>ENVIRON 391/RCIDIV 391</td>
<td>Sustainability and the Campus (4)</td>
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<tr>
<td>ENVIRON 405</td>
<td>Urban Sprawl: Policy and Politics (3)</td>
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<td>ENVIRON 407</td>
<td>Sustainable Cities (3)</td>
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<td>ENVIRON 408</td>
<td>Land Use Policy, Law and the Environment (3)</td>
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<td>ENVIRON 412</td>
<td>Environmental Values in Public Policy (3)</td>
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<td>ENVIRON /COMM 413</td>
<td>Environmental Communication (3)</td>
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<td>ENVIRON 418</td>
<td>Leadership and Environmental Stewardship in Organizations (3)</td>
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<td>ENVIRON 448</td>
<td>Applied Research in Orgs and the Natural Environment (4)</td>
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<td>ENVIRON 462</td>
<td>Topics in Environmental Social Science (1-4)</td>
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<tr>
<td>ENVIRON 475/NRE 475/EHS 588</td>
<td>Environmental Law (3)</td>
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<tr>
<td>EHS 500</td>
<td>Intro to Environmental Health Science (3)</td>
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<tr>
<td>GEOG 472</td>
<td>Transportation and Land Use Planning (3)</td>
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<td>HISTORY/ENVIRON 221</td>
<td>Global Environmental History (4)</td>
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<tr>
<td>HISTORY/ENVIRON 223</td>
<td>Trashed! A History of Garbage in the Modern World (4)</td>
</tr>
<tr>
<td>HISTORY/PUBPOL 224</td>
<td>Nuclear Proliferation (3)</td>
</tr>
<tr>
<td>HISTORY/ENVIRON 238</td>
<td>Zoom: A History of Everything (4)</td>
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<tr>
<td>HISTORY/ENVIRON 277</td>
<td>Environmental History of the Ancient Mediterranean (3)</td>
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<tr>
<td>HMP 200/PUBPOL 210</td>
<td>Health and Society: An Introduction to Public Health (4)</td>
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<td>ORGSTDY/ENVIRON 203</td>
<td>Activism (3)</td>
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<tr>
<td>POLSCI 309/ENVIRON 307</td>
<td>Population, Equity and Environmental Change (4)</td>
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<td>POLSCI 336</td>
<td>Energy Policy (3)</td>
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<tr>
<td>PUBPOL 201</td>
<td>Systematic Thinking About Problems of the Day (4)</td>
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<tr>
<td>PUBPOL/PHYSICS 481</td>
<td>Beyond Sputnik: National Science Policy in the 21st Century (3)</td>
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<tr>
<td>PUBHLTH 300</td>
<td>Behavioral and Soc Foundations for Pub Hlth Professionals (4)</td>
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<tr>
<td>PUBHLTH 305</td>
<td>The Environment and Human Health (4)</td>
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<td>PUBHLTH 350</td>
<td>Global Environmental Health</td>
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<tr>
<td>RCSSCI 330/AAS 330</td>
<td>Urban and Community Studies I</td>
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<tr>
<td>SOC 222/RCSSCI 222</td>
<td>Strategies in Social Interaction: An Intro to Game Theory (4)</td>
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<td>SOC 315</td>
<td>Economic Sociology (4)</td>
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<td>SOC 330</td>
<td>Population Problems (3)</td>
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<td>SOC 461</td>
<td>Social Movements (3)</td>
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<td>STRAT 310</td>
<td>The World Economy (3)</td>
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<td>STRAT 411</td>
<td>The Corporation and Society (3)</td>
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<td>STRAT 455</td>
<td>Base of the Pyramid (3)</td>
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<td>UP 425</td>
<td>Urban Systems (3)</td>
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Minor in Sustainability Worksheet

Name:_____________________________ UMID:______________________________

Email:_____________________________ Expected Graduation Date:______________

Major(s):________________________________________________________

SUSTAINABILITY MINOR REQUIREMENTS (Minimum of 18 credits)

- 9 credits must be taken at the 300-level or above

Introductory Course
ENVIRON 207: Sustainability and Society  Credits:  3  Term Completed:______

Pre-Approved Practical/Field Experience (from pre-approved list or advisor approved)

Course:_____________________________ Credits:_______ Term Completed:______

Sustainability Capstone Course (from pre-approved list or advisor approved)

Course:_____________________________ Credits:_______ Term Completed:______

9 Credits from 3 of the Following AREAS (from pre-approved list or advisor approved)

  c) Society, Culture, Justice and Activism

Course:_____________________________ Credits:_______ Term Completed:______

d) Business & Economics

Course:_____________________________ Credits:_______ Term Completed:______

e) Public Policy, Urban Planning and Law

Course:_____________________________ Credits:_______ Term Completed:______

f) Natural Sciences & Public Health

Course:_____________________________ Credits:_______ Term Completed:______

g) Technology, Engineering and Design

Course:_____________________________ Credits:_______ Term Completed:______
I. INTRODUCTORY COURSE - ENVIRON 207: SUSTAINABILITY and SOCIETY

II. PRACTICAL/EXPERIENTIAL CLASSES

Exceptions made with Advisor Approval

- ENVIRON 398: Environment Internship Program (ENVIRON 397 required)
- Biological Station - ENVIRON 370: Urban and Environmental Planning (Biostation ONLY)
- Camp Davis: EARTH 344: Sustainable and Fossil Energy
- New England Literature Program (NELP) (SP semesters only)
- Semester in Detroit (SiD) (W/SP semesters)
- STRATEGY 320: Costa Rica – Sustainable Business (CIBER, B-School)
- STDABRD 303: UM - ICADS, San Jose, Costa Rica (F/W semesters)
- STDABRD 308: UM at EcoQuest New Zealand (F/W/SU semesters)
- STDABRD 452: UM at St. Peter's College, Oxford, UK (only offered SP/SU semesters)

III. CAPSTONE COURSE/DESIGN EXPERIENCE

Exceptions with Advisor Approval

- ENVIRON 308: Sustainability and Health
- ENVIRON 309: GIS Explorations
- ENVIRON/Earth 380: Mineral Resources, Economics and the Environment
- ENVIRON 391/RCIDIV 391: Sustainability and the Campus
- ENVIRON 407: Sustainable Cities
- ENVIRON 421: Restoration Ecology
- ENVIRON 448: Applied Research in Organizations and Natural Environments

IV. 3 courses from 3 of 5 TOPICAL AREAS

Exceptions with Advisor Approval

Society, Culture, Justice and Citizenship

- AMCULT 496: American Values and Sustainability
- ANTHRRCUL 439: Economic Anthropology and Development
- ANTHRRCUL 440: Culture and Adaptation
- CAAS 365/WOMENSTD 365: Global Perspectives on Gender, Health, and Reproduction
- ENGLISH 320/ENVIRON 377: Literature and the Environment
- ENVIRON 211: Social Sciences and Environmental Problems
- ENVIRON 222: Introduction to Environmental Justice
- ENVIRON 256/ANTHRRCUL 256: Culture, Adaptation and Environment
- ENVIRON 302: Social Science Topics-Environmental Activism: Environmental Citizenship
- ENVIRON 304: Topics in Culture and Environment
- ENVIRON 313/POLSCI 394: Environment and Development (3)
- ENVIRON 320: Environmental Journalism: Reporting Science, Policy and Pub Health
- ENVIRON 360/PSYCH 384: Behavior and Environment
- ENVIRON 361/PSYCH 385: The Psychology of Environmental Stewardship
- ENVIRON 376: Environmental Ethics
- ENVIRON 382: Intro to Environmental Education and Sustainable Development
- PHIL/ENVIRON 240: Environmental Ethics
- PHIL 355: Contemporary Moral Problems
- SOC 415: Culture and Consumption

Business and Economics

- ANTHRRCUL 440: Globalizing Consumer Culture
- ANTHRRCUL 439: Economic Anthropology and Development
- ENVIRON 367: Global Enterprise and Sustainable Development
- ENVIRON 448: Applied Research in Organizations and the Natural Environment
- ENVIRON 449: Organizational Theory and Change
- SOC 315: Economic Sociology
- STRATEGY 310: World Economy
- STRATEGY 411: The Corporation in Society
- STRATEGY 445: The Base of the Pyramid
ECON 330: American Industries
ECON 340: International Economics
ENGR 390: Social Entrepreneurship

Public Policy, Urban Planning, and Law
AOSS 480/NRE 480: Climate Change: The Move to Action
ARCH 423/ENVIRON 370/UP 423: Introduction to Urban and Environmental Planning
CAAS 426: Urban Redevelopment and Social Justice
COMPLXSYS 281/POLSCI 381: Applied Complex Systems: Emergent Challenges
ECON 432: Government Regulation of Industry
ECON 437: Energy Economics and Policy
EEB 318/ENVIRON 318/RCIDIV 318: Food, Land and Society
ENVIRON 270: Our Common Future - The Ecology, Econ and Ethics of Sust Dvlpmnt
ENVIRON 306: Global Water
ENVIRON 312: Environmental Politics and Policy
ENVIRON 350: The Built Environment: Introduction to Landscape Change
ENVIRON 365: International Environmental Policy
ENVIRON 405: Urban Sprawl - Politics and Policy
ENVIRON 408: Land Use Policy, Law and the Environment
ENVIRON 412: Environmental Values in Public Policy
ENVIRON 475/EHS 588/NRE 475: Environmental Law
GEOG 472: Transportation and Land Use Planning
PUBPOL/PUBHLTH 201: Systematic Thinking About Problems of the Day
PUBPOL/PHYSICS 481: Science, Technology and Public Policy
RCIDIV 302: Environmental Literature/Social Justice
UP 425: Urban Systems

Natural Sciences & Public Health
AAS 462: Globalization and African Health
ANTHRCUL 408/AAS 409: Maternal/Child Health and Environmental Pollution in Africa
EHS 500: Introduction to Environmental Health Science
ENVIRON 308: Sustainability and Health
ENVIRON 310: Toxicology: The Study of Environmental Chemicals and Disease
ENVIRON 315: Ecology and Evolution of Infectious Diseases
ENVIRON 317: Conservation of Biological Diversity
EARTH 380/ENVIRON 380: Mineral Resources, Economics, and the Environment
PUBHLTH/HMP 200: Health and Society: Introduction to Public Health
PUBHLTH 300: Behavioral and Social Foundations for Public Health Professionals
PUBHLTH 305: Environment and Public Health

Technology, Engineering, and Design
ARCH 315: Environmental Technology I
ARCH/UP 357: Architecture, Sustainability and the City
ARTDES 250: Art-Design Persp III: Technology and the Environment
CEE 260: Environmental and Sustainable Engineering Principles
CMPLXSYS/ENVIRON 250: Social Systems and Energy
ENVIRON 309: GIS Explorations of the Past, Present, and Future
GEOG/UP 406: Introduction to Geographic Information Systems
RCNSCI 419/NRE 574: Sustainable Energy Systems *with permission of instructor*
Minor in Food and the Environment Worksheet

Name:_____________________________ UMID:________________________________

Email:_____________________________ Expected Graduation Date:_______________

Major(s):______________________________

**FOOD MINOR REQUIREMENTS (Minimum of 5 courses to total at least 15 credits)**
- At least 2 courses must be taken at the 300-level or above

*Introductory Food Course*
(Environ 101, 270, 290 or *UC 254 “Much Depends on Dinner”*)

Course:_____________________________ Credits:_____ Term Completed:______

*Topical Food Courses* (from approved list or with advisor approval)

Course:_____________________________ Credits:_____ Term Completed:______

Course:_____________________________ Credits:_____ Term Completed:______

Course:_____________________________ Credits:_____ Term Completed:______

*Synthesis Food Course* (from approved list or with advisor approval)

Course:_____________________________ Credits:_____ Term Completed:______

**Total Credits:**______

Other ENVIRON Courses:
_____________________________________________________________________________________
_____________________________________________________________________________________

*This section of UC 254 ONLY*
Food Systems Minor Requirements:

The Food Systems Minor consists of no less than 5 courses for a total of at least 15 credits, from the categories below.

**Introductory Courses (at least 1 course):**

- ENVIRON/BIO 101: Food, Energy and the Environment
- ENVIRON 139: Local Food Systems and Sustainability
- ENVIRON 270: Our Common Future
- ENVIRON 290: Food – The Ecology, Economics and Ethics of Eating
- UC 254 - *Much Depends on Dinner* OR *Obesity: Fatness in America*

**Topical Courses (at least 3 courses):**

- ANTHRBIOL 364: Nutrition and Evolution
- ANTHRCHUL 458: *Topic titled: Anthropology of Food and Eating*
- ARCH/UP 357: Architecture, Sustainability and the City
- ARTDES 250: Art-Design Perspectives III: Tech/Environment
- BIO 102: Practical Botany
- CLARCH/CLCIV 382: Food in the Ancient World
- Earth 154: Ocean Resources
- Earth 159: Toward a Sustainable Human Future
- Earth 333: Inexhaustible Seas? Marine Resources & Environ Issues
- EHS 540: Maternal and Childhood Nutrition (with perm of instructor)
- EHS 642: Community Nutrition (with perm of instructor)
- ENGLISH 225.009 *Understanding and Making Arguments about Food*
- ENVIRON 242.001 *2.5 Million Years of Human Food and Foodways*
- ENVIRON 302/UC 370: *The Measure of our Meals*
- ENVIRON 302/UC 370: *Foundations of Sustainable Food Systems*
- ENVIRON 317: Conservation of Biological Diversity
- ENVIRON 390: Environmental Activism
- ENVIRON 421: Restoration Ecology
- ENVIRON 462.001 *Foundations of Sustainable Food Systems*
- ENVIRON 462.002 *Localization: Transitional Thinking*
- NRE 501: *Urban Agriculture* (if offered with perm of instructor)
- NRE 565: Principles of Transition – Food, Fuel and Finance (if offered with perm of instructor)

**Synthesis Courses (at least 1 course):**

- ENVIRON 302/UC 370: *The Measure of our Meals*
- ENVIRON 462.001 *Foundations of Sustainable Food Systems*
- ANTHRCHUL 458: *Food, Politics and the Environment*
- ARTDES 300: *Sustainable Food System Design*
- EEB 498: Ecology of Agroecosystems
- RCIDIV/ENV/EEB 316: Introduction to Food Systems
- RCIDIV/ENV/EEB 316: Food, Land and Society

+Courses with * must contain that topic title only. Other topic titles are not accepted.+
Minor in Energy Science and Policy Worksheet

Name:_____________________________ UMID:______________________________

Email:_____________________________ Expected Graduation Date:______________

Major(s):________________________________________________________

ENERGY MINOR REQS (Minimum of 5 courses to total at least 15 credits)
• At least 2 courses must be taken at the 300-level or above

Introductory Energy Science and Policy Course (choose one)
• (ENVIRON/PUBPOL 250 or Physics 210 *fall only*)

Course:____________________________   Credits:_______  Term Completed:______

Topics Courses (4 courses totaling at least 12 credits)
2 Courses from Energy Economics & Policy (from approved list)

Course:_____________________________  Credits:_______  Term Completed:______

Course:_____________________________  Credits:_______  Term Completed:______

2 Courses from Energy Production/Extraction/Technology (from approved list)

Course:_____________________________  Credits:_______  Term Completed:______

Course:_____________________________  Credits:_______  Term Completed:______

You may substitute one Topic Course above with one Breadth Course

Breadth Course (from approved list or with advisor approval)

Course:_____________________________  Credits:_______  Term Completed:______

Total Credits:_______
Energy Minor

Either select
• 2 courses from the Energy Economics and Policy category and
• 2 courses from the Energy Production, Extraction & Technology category
OR select
• 2 courses from one of the above categories and
• 1 course from the other of the above categories and
• 1 Breadth course

### Energy Economics & Policy Courses
- ARCH/UP 357: Arch/Sust & the City
- ENVIRON 302: Energy Topics Only
- ENVIRON 312/POLSCI 380: *Environmental Politics and Policy*
- ECON 370/ENVIRON 375: *Environ and Resource Economics*
- ECON 437: *Energy Economics*
- ENVIRON 407/CEE 307: *Sust Cities*
- ENVIRON 475: *Environ Law*
- POLSCI 336: *Energy Policy*
- PUBPOL 475: *Energy Topics Only*
- PUBPOL 564: *Gov Reg of Industry and Environment*
- UP 572: *Trans and Land Use Planning*
- UP 671: *Public Policy and Transport*

### Energy Production, Extraction & Technology Courses
- CEE 230: *Energy and Environment*
- CEE 565: *Energy Sys/Tech/Policy Topics*
- CHEM 260: *Chemical Principles*
- EARTH 344/ENVIRON 344: *Sust Fossil Energy*
- EARTH 380/ENVIRON 380: *Min Resrcs, Econ, and Environ*
- EECS 498: *Energy Topics Only*
- EECS 598: *Energy Topics Only*
- ENVIRON 404: *Cars, Energy & Sust*
- MECHENG 433: *Adv Energy Soltns*
- MECHENG 438: *Int Comb Engines*
- PHYSICS 406: *Stat &Thermal Physics*
- PUBPOL 519/NRE 574: *Sust Energy Systems*

### Breadth Courses
- AAS 359: *African Politics*
- AAS 432: *Violent Environments: Oil, Dvlptm, Discourse of Power*
- ANTHRCUL 439: *Econ Anthro and Development*
- ARTDES 250: *Art/Desgn/Environment*
- CEE 265: *Sust Engineering Principles*
- CHE 230: *Material and Energy Balances*
- EARTH 284/ENVIRON 284: *Environmental Geology*
- ENGLISH 319: *Lit and Social Change*
- ECON 432: *Gov Reg of Industry*
- ECON 455: *Economy of China*
- ENVIRON 302: *Energy Topics Only*
- ENVIRON 303: *Energy Topics Only*
- ENVIRON 304 / ENGLISH 320: *Energy Topics Only*
- ENVIRON 305: *Energy Topics Only*
- ENVR 365: *Int'l Environ Policy*
- ENVR 412: *Environ Values in Public Policy*
- GERMAN 326: *Energy Topics Only*
- HISTORY 222/ENVIRON 221: *Global Environmental History*
- HISTORY 224: *Global Nuc Prolif*
- HISTORY 241: *America and Mid-East Wars*
- HISTORY 285: *Science, Tech, and Society*
- NRE 480: *ClimateChange: Move to Act*
- POLSCI 364: *Public International Law*
Minor in Water and the Environment Worksheet

Name:_____________________________ UMID:______________________________

Email:_____________________________ Expected Graduation Date:______________

Major(s):________________________________________________________

WATER MINOR REQUIREMENTS (Minimum of 18 credits)
  • 9 credits must be taken at the 300-level or above

Two Introductory Water Centered Courses:

One from: ENVIRON 206, 232, or Earth 277
Course:_____________________________ Credits:_______ Term Completed:______

Additional Water Centered Course (from pre-approved list or advisor approved)
Course:_____________________________ Credits:_______ Term Completed:______

9 Credits from 3 of the Following AREAS (from pre-approved list or advisor approved)

  h) Culture
  Course:__________________________ Credits:_______ Term Completed:_____  

  i) Economics, Policy, and Planning
  Course:__________________________ Credits:_______ Term Completed:_____  

  j) Natural Sciences and Resource Management
  Course:__________________________ Credits:_______ Term Completed:_____  

  k) Public Health
  Course:__________________________ Credits:_______ Term Completed:_____  

  l) Technology, Engineering and Design
  Course:__________________________ Credits:_______ Term Completed:_____  

Practical Experience (pre-approved Internship, Field Station or Study Abroad experience)
Course:__________________________ Credits:_______ Term Completed:_____
TOPICS COURSES Choose three courses.

**Culture**
- ANTHRARC 392: Archaeology Underwater
- ASIAN 371: Natural Disasters in East Asia
- CLARCH 350: Topics in Classical Archaeology: Jews in the Roman Bathhouse
- ENGL 317.004/AMCULT 301.009: Literature and Culture: Green Indigeneities
- ENGL 320/ENVIRON 304: Ecocriticism
- ENGL 320/ENVIRON 304: Southern Natures: Race and Environment in the U.S. South
- ENGLISH 398.006: American Literature and the Sea
- ENGLISH 398.201: Moby Dick: Allusion and Intertextuality
- ENVIRON 302.001: Intro to Water Law & Policy
- ENVIRON 304/ENGL 317.009: Reading and Writing: Growing Up Near the Great Lakes
- ENVIRON 377.721: Literature and the Environment
- ENVIRON 410: American Environmentalism and the Frontier West
- HISTORY 240: The World Since 1492: Oceans in World History
- HISTORY 498/ENVIRON 304.002: North American Environmental History
- RCIDIV 305.001: Literature of Environmental Justice

**Economics, Policy & Planning**
- ARCH 357/UP 357: Architecture, Sustainability and the City
- ECON 370/ENVIRON 375: Environmental and Resource Economics
- ENVIRON 242.001: Environmental and Natural Resource Economics
- ENVIRON 306: Global Water
- ENVIRON 365: International Environmental Policy
- ENVIRON 412: Environmental Values in Public Policy
- ENVIRON 475: Environmental Law
- ORGSTUDY 208/ENVIRON 208: Business and the Natural Environment
- POLSCI 497.002 & 008: Seminar in Comparative and Foreign Government.

**Natural Sciences & Resource Management**
- AOSS 420/ENSCEN 420/NAVARCH 420: Environmental Ocean Dynamics
- AOSS 476: Ocean Dynamics and Climate
- AOSS 480/NRE 480: Climate Change: The Move to Action
- EARTH 201/ENVIRON 209: Introduction to Environmental Science and Geography
- EARTH 222/ENVIRON 232: Introductory Oceanography
- EARTH 223/ENVIRON 233: Introductory Oceanography, Laboratory
- EARTH 284/ENVIRON 284: Environmental Geology
- EARTH 331: Climate Change
- EARTH 351: Earth Structure
- EARTH 417: Geology of the Great Lakes
- EARTH 474/AOSS 474: Ice Sheets, Glaciers, and Climate Change
- EEB 256: Environmental Physiology of Animals
- EEB 380: Oceanography: Marine Ecology
- EEB 457: Algae in Freshwater Ecosystems (UMBS)
- EEB 476/ENVIRON 476/NRE 476 (C): Ecosystem Ecology
- EEB 483: Freshwater Ecosystems: Limnology
- EEB 486 Biology/Ecology of Fish (UMBS)
- ENVIRON 201: Ecological Issues
- ENVIRON 409: Ecology of Fishes
- ENVIRON 422: Biology of Fishes
- PHYSICS 210: Energy for our Future
Public Health
- ANTHRCUL 408/AAS 409: Maternal/Child Health and Environmental Pollution in Africa
- EHS 570 (W): Water Quality Management
- EHS 614 (W): Water and Global Health
- PUBHLTH 305: The Environment and Human Health
- PUBHLTH 350: Global Public Health: Challenges and Transformation

Technology
- ARTDES 250: Art/Design Perspectives III: Technology/Environment
- CEE 265: Sustainable Engineering Principles
- CEE 325: Fluid Mechanics
- CEE 345: Geotechnical Engineering
- CEE 365: Environmental Engineering Principles
- CEE 481(W): Aquatic Chemistry
- CEE 482/582: Environmental Microbiology
- ENVIRON 321: Climate Change and Adaptation