Environmental Science and Policy Courses

Spring 2017

Please find below a list of courses offered in Spring Semester 2017 that fulfill requirements for the Environmental Science and Policy major and minor. Other courses offered at Smith, within the Five College Consortium, or study abroad programs may be used to satisfy the elective requirements of the major and minor, with the approval of the major or minor adviser. The list of courses offered within the Five Colleges at the end of this document is a selection of potential elective courses, but is not exhaustive. Students in consultation with faculty advisers are encouraged to review the Five Colleges catalog for courses that would complement the focus of a student’s major or minor.

Courses for ES&P Major

Environmental Integration Courses

ENV 201  Researching Environmental Problems (Must also take ENV 202)
         T Th 10:30 AM-11:50 AM

ENV 202  Researching Environmental Problems Lab
         Lab  M 1:10 PM-4:00 PM

ENV 312  Sustainable Solutions
         T Th 9:00 AM-10:20 AM

Introductory Natural Science Courses

Natural Science Lab or Field Courses

BIO 131  Biodiversity, Ecology, and Conservation Lab (must take BIO 130 concurrently or previously)
         Lab  T 1:00 PM-4:00 PM
         Lab  W 1:10 PM-4:00 PM
         Lab  Th 1:00 PM-3:50 PM

EGR 100  Engineering for Everyone: Challenges in Human Health
         T Th 10:30 AM-11:50 AM
         Lab  F 1:10 PM-4:00 PM

EGR 100  Engineering for Everyone: Sustainable Water Resources
         T Th 9:00 AM-10:20 AM
         Lab  F 1:10 PM-4:00 PM

GEO 108  Oceanography: An Introduction to the Marine Environment
         M W 11:00 AM-12:10 PM
         Disc M 1:10 PM-2:30 PM
         Disc W 1:10 PM-2:30 PM
PHY 117  Introductory Physics I  
    M W F 8:00 AM-9:50 AM  
    M W F 10:20 AM-12:10 PM  
    M W F 1:10 PM-3:00 PM  
    Disc T 4:01 PM-4:50 PM  
    Disc Th 4:01 PM-4:50 PM  

PHY 118  Introductory Physics II  
    M W F 1:10 PM-3:00 PM  
    Disc Th 4:00 PM-4:50 PM  

Natural Science Courses  

BIO 130  Biodiversity, Ecology, and Conservation *(BIO 131 Lab may be taken concurrently or later)*  
    M W F 9:00 AM – 10:20 AM  

CHM 108  Environmental Chemistry (same as ENV 108)  
    M W F 11:00 AM-12:10 PM  

ENV 108  Environmental Chemistry (same as CHM 108)  
    M W F 11:00 AM-12:10 PM  

GEO 106  Extraordinary Events in the History of Earth, Life and Climate  
    T TH 10:30 AM- 11:50 AM  

Introductory Social Science, Humanities, and Policy Courses  

ANT 130  Introduction to Cultural Anthropology  
    M W 9:00 AM-10:20 AM  
    T Th 9:00 AM-10:20 AM  

ECO 150  Introductory Microeconomics  
    M W F 11:00 AM-11:50AM  
    T TH 10:30 AM-11:50AM  
    T TH 1:00 AM- 2:20 PM  

GOV 200  American Government  
    M W 2:40-4:00 PM  

GOV 241  International Politics  
    M W 9:00 AM-10:20 AM  

SOC 101  Introduction to Sociology  
    M W 1:10 PM- 2:30 PM  
    T Th 10:30 AM-11:50 AM  
    T Th 1:00 PM-2:20 PM  

SWG 150  Introduction to the Study of Women and Gender  
    M W F 11:00 AM-12:10 PM
Statistics Courses

**ECO 220**  Introduction to Statistics and Econometrics  
  T TH 9:00 AM- 10:20 AM  
  **Lab**  W 9:00 AM- 10:20 AM  
  **Lab**  W 1:10 PM-2:30 PM  
  **Lab**  2:40 PM-4:00 PM

**GOV 203**  Empirical Methods in Political Science  
  M W 1:10 PM-2:30 PM  
  **Lab**  Th 1:00 PM-2:50 PM  
  **Lab**  Th 3:00 PM-4:50 pm

**MTH 220**  Introduction to Probability and Statistics (Same as **SDS 220**)  
  M W F 11:00 AM-12:10PM  
  **Lab**  T 1:00 PM-2:20 PM  
  **Lab**  T 3:00 PM-4:20 PM

**PSY 201**  Statistical Methods for Undergraduate Research  
  M W F 11:00 AM-12:10 PM  
  **Lab**  W 8:00 AM-8:50 AM  
  **Lab**  W 9:00 AM-9:50 AM  
  **Lab**  W 10:00 AM-10:50 AM

**SDS 201**  Statistical Methods for Undergraduates  
  M W F 1:10 PM-2:30 PM  
  **Lab**  Th 1:00 PM-2:50 PM  
  **Lab**  Th 3:00 PM-4:50 PM

**SDS 220**  Introduction to Probability and Statistics (Same as **MTH 220**)  
  M W F 11:00 AM-12:10PM  
  **Lab**  T 1:00 PM-2:20 PM  
  **Lab**  T 3:00 PM- 4:20 PM

Electives: Natural Science

**Biological Sciences**

**BIO 103**  Economic Botany: Plants and Human Affairs  
  M W 7:30 PM-9:30 PM

**BIO 206**  Plant Physiology (Must also take **BIO 207**)  
  M W 9:00 AM-10:20 AM

**BIO 207**  Invertebrate Diversity  
  **Lab**  W 1:10 PM-4:00 PM

**BIO 260**  Invertebrate Diversity (Must also take **BIO 261**)  
  M W F 11:00 AM-12:10 PM

**BIO 261**  Invertebrate Diversity **Lab**  
  **Lab**  W 1:10 PM-4:00 PM
BIO 264  Plant Diversity and Evolution (Must also take BIO 265)  
T Th 10:30 AM-11:50 AM

BIO 265  Plant Diversity and Evolution Lab  
Lab  Th 1:00 PM-3:50 PM

BIO 366  Biogeography  
T Th 9:00 AM-10:20 AM

BIO 390  Topics in Environmental Biology: Coral Reef Ecology and Conservation  
T 1:00 PM-2:50 PM

**Engineering**

EGR 326  Dynamic Systems  
M W F 11:00 AM-12:10 PM

**Geosciences**

GEO 251  Geomorphology  
M W F 10:00 AM-10:50 AM  
Lab  M 1:10 PM-4:00 PM

GEO 301  Aqueous Geomorphology  
T Th 10:30 AM-11:50 AM  
Lab  W 1:10 PM-4:00 PM

**Electives: Social Science, Humanities, and Policy**

ANT 236  Economy, Ecology, and Society  
T TH 1:00PM-2:50 PM

HST 263  Continuity and Change in Spanish America and Brazil  
T Th 3:00 PM-4:20 PM

LSS 250  Studio: Landscape and narrative  
T Th 9:00 AM-11:50 AM

PSY 268  Psychology and Climate Change  
T Th 9:00 AM-10:20 AM

SOC 232  World Population  
M W 1:10 PM-2:30 PM

**Courses for ES&P Minor**

**Natural Science Courses**

BIO 130  Biodiversity, Ecology, and Conservation (BIO 131 may be taken concurrently or later)  
M W F 9:00 AM – 10:20 AM

BIO 390  Topics in Environmental Biology: Coral Reef Ecology and Conservation  
T 1:00 PM-2:50 PM

CHM 108  Environmental Chemistry (same as ENV 108)  
M W F 11:00 AM-12:10 PM
EGR 100  Engineering for Everyone (Only sections with environmental focus count for Minor)
EGR 100  Engineering for Everyone: Sustainable Water Resources
  T Th 9:00 AM-10:20 AM
  Lab  F 1:10 PM-4:00 PM
ENV 108  Environmental Chemistry (same as CHM 108)
  M W F 11:00 AM-12:10 PM
GEO 106  Extraordinary Events in the History of Earth, Life and Climate
  T TH 10:30 AM -11:50 AM
GEO 108  Oceanography: An Introduction to the Marine Environment
  M W 11:00 AM-12:10 PM
  Disc M 1:10 PM-2:30 PM
  Disc W 1:10 PM-2:30 PM
GEO 301  Aqueous Geomorphology
  T Th 10:30 AM-11:50 AM
  Lab  W 1:10 PM-4:00 PM

Social Science, Humanities, and Policy Courses
ANT 236  Economy, Ecology, and Society
  T TH 1:00PM-2:50 PM
HST 263  Continuity and Change in Spanish America and Brazil
  T Th 3:00 PM-4:20 PM
PSY 268  Psychology and Climate Change
  T Th 9:00 AM-10:20 AM

Elective Courses for ES&P Minor
(In addition to the courses listed below, courses listed in the above two categories as Minor Natural Science and Minor Social Science, Humanities and Policy Courses as well as other courses at Smith, within the Five College Consortium, or study abroad programs may be taken as electives for the Minor, with approval of minor adviser.)
BIO 103  Economic Botany: Plants and Human Affairs
  M W 7:30 PM-9:30 PM
BIO 206  Plant Physiology (Must also take BIO 207)
  M W 9:00 AM-10:20 AM
BIO 207  Invertebrate Diversity
  Lab  W 1:10 PM-4:00 PM
BIO 260  Invertebrate Diversity (Must also take BIO 261)
  M W F 11:00 AM-12:10 PM
BIO 261  Invertebrate Diversity Lab
  Lab  W 1:10 PM-4:00 PM
BIO 264  Plant Diversity and Evolution (Must also take BIO 265)
  T Th 10:30 AM-11:50 AM
A sample of potential elective courses offered at the Five Colleges follows. Students are encouraged to review the Five College catalog in consultation with their faculty adviser for courses that would complement the focus of their major or minor.

**Amherst College**

- ENST 160: The Politics of Food - T TH 11:30 AM-12:50PM
- GEOL 121: Surface Earth Dynamics – M W F 10:00 - 10:50
- PHYS 109: Energy – T TH 10:00 - 11:20
- POSC 307: States of Extraction - T 1:00-3:30 PM
- ENST 330: Environmental Justice – T TH 2:30-3:50PM

**Hampshire College**

- CSI 0151: Religion & Environmentalism – M W 9:00AM-10:20AM
- CSI 0220: Buddhism and Environment – T TH 10:30 AM-11:50 AM
- CSI 0244: Media Studies / Environment – T TH 2:00PM-3:20PM
- IA 0229: Object & Environment – M W 1:00PM-3:20PM
- IA 0278: Art and Ecology – F 9:00AM-5PM
- NS 0130: Forests in Transition – T TH 9:00AM-10:20AM
- NS 0228: Botanical Solutions – MW 9:00AM-10:20 AM, Lab M 1:00-4:00PM
- NS 0267: Ecosystem Ecology – M W 2:30PM-03:50PM, Lab W3:50PM-05:30PM

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**BIO 265**  Plant Diversity and Evolution **Lab**
  **Lab**  Th 1:00 PM-3:50 PM

**BIO 366**  Biogeography
  T Th 9:00 AM-10:20 AM

**EGR 326**  Dynamic Systems
  M W F 11:00 AM-12:10 PM

**ENV 201**  Researching Environmental Problems (Must also take ENV 202)
  T Th 10:30 AM-11:50 AM

**ENV 202**  Researching Environmental Problems **Lab**
  **Lab**  M 1:10 PM-4:00 PM

**GEO 251**  Geomorphology
  M W F 10:00 AM-10:50 AM
  **Lab**  M 1:10 PM-4:00 PM

**LSS 250**  Studio: Landscape and narrative
  T Th 9:00 AM-11:50 AM

**SOC 232**  World Population
  M W 1:10 PM-2:30 PM

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**Five Colleges Courses**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS 0275</td>
<td>Sustainable Design</td>
<td>MW</td>
<td>10:30 AM - 11:50 AM</td>
</tr>
<tr>
<td>NS 0294</td>
<td>Sust Ag/Organic Farm/Agroecol</td>
<td>T TH</td>
<td>12:30PM-1:50PM</td>
</tr>
<tr>
<td>NS 0330</td>
<td>Forests in Transition</td>
<td>T TH</td>
<td>9:00AM-10:20AM</td>
</tr>
</tbody>
</table>

**Mount Holyoke College**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>ARTH 101</td>
<td>The Built Environment</td>
<td>MW</td>
<td>2:40PM-3:55PM</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>Local Flora</td>
<td>F</td>
<td>1:15 – 4:05</td>
</tr>
<tr>
<td>ENVST 210</td>
<td>Political Ecology</td>
<td>M W</td>
<td>11:00 – 12:15</td>
</tr>
<tr>
<td>ENVST 233</td>
<td>Air Pollution Biology</td>
<td>T TH</td>
<td>11:30 – 12:45</td>
</tr>
<tr>
<td>ENST 321</td>
<td>Capitalism and Climate Change</td>
<td>T</td>
<td>1:15PM-4:05PM</td>
</tr>
<tr>
<td>ENVST 337</td>
<td>Environment and Development</td>
<td>TH</td>
<td>1:15 – 4:05</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Sustainable Cities</td>
<td>T H</td>
<td>10:00 AM-11:15AM</td>
</tr>
<tr>
<td>GEOG 230</td>
<td>Environmental Soil Science</td>
<td>MWF</td>
<td>10:00AM-10:50AM; Lab TH 03:15PM-04:05PM</td>
</tr>
<tr>
<td>POLIT 302</td>
<td>Urban Policy</td>
<td>T</td>
<td>1:15PM-4:05PM</td>
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**University of Massachusetts, Amherst**

This is a sample of environmental courses offered at UMass Amherst.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 287</td>
<td>Intro Ecology</td>
<td>M W F</td>
<td>10:10AM 11:00AM</td>
</tr>
<tr>
<td>CE-ENGIN 370</td>
<td>Intro to Environmental &amp; Water Resource Engineering</td>
<td>TU TH</td>
<td>11:30AM 12:45PM, Lab</td>
</tr>
<tr>
<td>ECO 605</td>
<td>Urban Forests: Struct, Funct, Value</td>
<td>TU</td>
<td>2:30PM 5:30PM</td>
</tr>
<tr>
<td>ENVIRSCI 315</td>
<td>Principles of Environmental Toxicology &amp; Chemistry</td>
<td>T TH</td>
<td>4:00 - 5:15</td>
</tr>
<tr>
<td>GEOGRAPH 468</td>
<td>GIS and Spatial Analysis</td>
<td>T TH</td>
<td>10:00 - 11:15, Lab 1:00AM 1:00AM</td>
</tr>
<tr>
<td>GEOGRAPH 497R</td>
<td>ST-Rethinking US Land &amp; Water Pol</td>
<td>TU TH</td>
<td>11:30AM 12:45PM</td>
</tr>
<tr>
<td>GEOLOGY 101</td>
<td>The Earth</td>
<td>M W F</td>
<td>9:05 - 9:55, Multiple lab sections</td>
</tr>
<tr>
<td>GEOLOGY 103</td>
<td>Intro Oceanography</td>
<td>TU TH</td>
<td>8:30AM 9:45AM</td>
</tr>
<tr>
<td>NRC 185</td>
<td>Sustainable Living: Solutions/21st</td>
<td>TH</td>
<td>4:00PM 5:15PM</td>
</tr>
<tr>
<td>RES-ECON 262</td>
<td>Environmental Economics</td>
<td>T TH</td>
<td>2:30 - 3:45</td>
</tr>
<tr>
<td>REGIONPL 580</td>
<td>Sustainable Cities</td>
<td>M W</td>
<td>11:15AM 12:05PM</td>
</tr>
<tr>
<td>PUBHLTH 203</td>
<td>Intro Environmental Health Sci</td>
<td>TU TH</td>
<td>4:00PM 5:15PM</td>
</tr>
<tr>
<td>STOCKSCH 115</td>
<td>Environmental Biology</td>
<td>T TH</td>
<td>8:30 - 9:45</td>
</tr>
<tr>
<td>STOCKSCH 258</td>
<td>Urban Agriculture</td>
<td>TU TH</td>
<td>8:30AM 9:45AM</td>
</tr>
<tr>
<td>STOCKSCH 370</td>
<td>Tropical Agriculture</td>
<td>M W F</td>
<td>9:05AM 9:55AM</td>
</tr>
<tr>
<td>STOCKSCH 378</td>
<td>Agroecology</td>
<td>TU TH</td>
<td>2:30PM 3:45PM</td>
</tr>
<tr>
<td>STOCKSCH 510</td>
<td>Management and Ecology of Plant Diseases</td>
<td>T TH</td>
<td>10:00 - 11:15</td>
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