Majors
The Major in Environmental Analysis

The environmental analysis major is a flexible, 49-credit program that focuses on developing critical skills and competencies in interdisciplinary environmental problem solving. It is ideal for students seeking interdisciplinary training focused on the environment and sustainability, and it is designed to stand alone or to complement another primary major.

Total units required: 49

Required courses (28 units):
• Choose three of the following (9 units):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 2950</td>
<td>Introduction to Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 201</td>
<td>Earth and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>EEPS 202</td>
<td>Introduction to Earth, Environmental, and Planetary Science</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 101</td>
<td>Earth’s Future: Causes and Consequences of Global Climate Change (I60 course)</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 102</td>
<td>To Sustainability and Beyond: People, Planet, Prosperity</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 252</td>
<td>Sustainability in Business</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 111</td>
<td>Environmental Racism and the Health of Everyone</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 215</td>
<td>Introduction to Environmental Humanities</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 250</td>
<td>One Health: Linking the Health of Humans, Animals, and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 2010</td>
<td>Introduction to Environmental Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

• Required core courses in analysis and communication; choose four of the following (12 units):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthro 428W</td>
<td>Original Research in Environmental Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Drama 214</td>
<td>Public Speaking: Embodied Communication</td>
<td>3</td>
</tr>
<tr>
<td>Drama 4081</td>
<td>Theater for Social Change</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 315</td>
<td>Fallout: Analyzing Texts and Narratives of the Nuclear Era</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 316</td>
<td>Beyond the Evidence</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 350W</td>
<td>Writing Skills for Environmental Professionals</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 357</td>
<td>Multiparty Environmental Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 364</td>
<td>Field Methods for Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 380</td>
<td>Applications in GIS</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 415W</td>
<td>Writing Home: Creating Cultural Guides for Environmental Site Workers</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 481</td>
<td>Advanced GIS</td>
<td>3</td>
</tr>
<tr>
<td>IPh 3123</td>
<td>Introduction to Digital Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Math 2200</td>
<td>Elementary Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Math 3200</td>
<td>Elementary to Intermediate Statistics and Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Students may count a fifth analysis and communication course toward the depth electives.

• Required course in social identity and environment; choose one of the following (3 units):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 2010</td>
<td>The Roots of Ferguson: Understanding Racial Inequality in the Contemporary U.S.</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 111</td>
<td>Environmental Racism and the Health of Everyone</td>
<td>3</td>
</tr>
<tr>
<td>GeSt 232</td>
<td>Intergroup Dialogue: Race/Ethnicity</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2010</td>
<td>The Roots of Ferguson: Understanding Racial Inequality in the Contemporary U.S.</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2110</td>
<td>Social Inequality in America</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3212</td>
<td>The Social Construction of Race</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2520</td>
<td>Inequality By Design: Understanding Racial/Ethnic Health Disparities</td>
<td>3</td>
</tr>
</tbody>
</table>

• Required interdisciplinary environmental capstone course; choose one of the following (3 units):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnSt 405</td>
<td>Sustainability Exchange: Community and University Practicums</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 407</td>
<td>RESET - Renewable Energy Policy, Engineering and Business</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 452</td>
<td>International Climate Negotiation Seminar</td>
<td>var.; max. 6</td>
</tr>
</tbody>
</table>
EnSt 539   Interdisciplinary Environmental Clinic  var.; max. 6
EnSt 498   Senior Honors Research  3

Note: Due to the intensity of these project-based courses, students may only take one per semester. Students may count a second capstone course toward the depth electives.

• Fourth-year reflection seminar (1 unit):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnSt 492</td>
<td>Environmental Studies Fourth-Year Reflection Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: The purpose of this seminar is to create a written narrative portfolio that synthesizes, integrates, and reflects on the student’s learning across the courses and experiences of the major. Reflection will occur through personal writing and discussion with peers in the course.

Elective Courses (21 units):

Students will choose depth and breadth elective courses from the three categories below: Social Sciences, Humanities and Arts, and Natural Science. Students must choose seven elective courses, with at least four courses from one category and at least one course in each of the other two categories. This requirement means that students can choose a 5/1/1 combination or a 4/2/1 combination from the elective categories.

The following flexibility is allowed regarding substitutions:

• Students may count a fifth analysis and communication course toward the depth electives.
• Students may count a second capstone course toward the depth electives.
• Students may request one course substitution outside of the electives listed below to take advantage of unique one-time or rarely offered courses.

Students must complete no fewer than 18 units of courses numbered 300 or above within the major with a grade of C- or better. There is no double counting of advanced (300- and 400-level) courses between two majors or between a major and a minor. This “no double-counting rule” also applies to students who are double majoring across schools.

• Social sciences electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMCS 299</td>
<td>The Study of Cities and Metropolitan America</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3215</td>
<td>Food, Culture, and Power</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3472</td>
<td>Global Energy and the American Dream</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3602</td>
<td>Environmental Inequality: Toxicity, Health, and Justice</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 361</td>
<td>Culture and Environment</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3618</td>
<td>Urban Ecological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 374</td>
<td>Social Landscapes in Global View</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 379</td>
<td>Meltdown: The Archaeology of Climate Change</td>
<td>3</td>
</tr>
</tbody>
</table>

• Environmental humanities and arts electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAS 288</td>
<td>Free the Land: Black Histories of Environmental Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFAS 3075</td>
<td>Recipes for Respect: Black Foodways in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AFAS 474</td>
<td>Black Geographies: Space, Place and Ecologies of Power*</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 209</td>
<td>Design Process</td>
<td>3</td>
</tr>
<tr>
<td>ART 318P</td>
<td>Photography: Art Practice (Art, Environment, Culture &amp; Image)</td>
<td>3</td>
</tr>
<tr>
<td>Comp Lit 4111</td>
<td>Pastoral Literature</td>
<td>3</td>
</tr>
<tr>
<td>Drama 351</td>
<td>Intro to Playwriting</td>
<td>3</td>
</tr>
<tr>
<td>Drama 4081</td>
<td>Theater for Social Change</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 315</td>
<td>Fallout: Analyzing Texts and Narratives of the Nuclear Era</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 415W</td>
<td>Writing Home: Creating Cultural Guides for Environmental Site Workers</td>
<td>3</td>
</tr>
<tr>
<td>History 2561</td>
<td>Urban America</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should request permission from the instructor to enroll in this course.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>History 3194</td>
<td>Environment and Empire</td>
<td>3</td>
</tr>
<tr>
<td>IPH 312</td>
<td>Introduction to Digital Humanities</td>
<td>3</td>
</tr>
<tr>
<td>IPH 431</td>
<td>Statistics for Humanities Scholars: Data Science for the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Phil 235F</td>
<td>Introduction to Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Writing 309</td>
<td>Writing the Natural World</td>
<td>3</td>
</tr>
</tbody>
</table>

* This course has a prerequisite.

- Natural science electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthro 3053</td>
<td>Nomadic Strategies and Extreme Ecologies</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3660</td>
<td>Primate Ecology, Biology, and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 3662</td>
<td>Writing for Primate Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 4285</td>
<td>Environmental Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 4803</td>
<td>Advanced GIS Modeling and Landscape Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Biol 3171</td>
<td>Biology for Climate Change Solutions</td>
<td>3</td>
</tr>
<tr>
<td>Biol 3220</td>
<td>Woody Plants of Missouri</td>
<td>3</td>
</tr>
<tr>
<td>Biol 3221</td>
<td>Research and Public Education in the Arboretum</td>
<td>3</td>
</tr>
<tr>
<td>Biol 349</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Biol 373W</td>
<td>Laboratory on the Evolution of Animal Behavior (Writing Intensive)</td>
<td>3</td>
</tr>
<tr>
<td>Biol 381</td>
<td>Introduction to Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Biol 3900</td>
<td>Science for Agriculture and Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>Biol 419</td>
<td>Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Biol 4193</td>
<td>Experimental Ecology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Biol 4195</td>
<td>Disease Ecology</td>
<td>4</td>
</tr>
<tr>
<td>EEPS 219</td>
<td>Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 323</td>
<td>Biogeochemistry</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 340</td>
<td>Minerals, Rocks, Resources and the Environment</td>
<td>4</td>
</tr>
<tr>
<td>EEPS 342</td>
<td>Environmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 385</td>
<td>Earth History</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 386</td>
<td>The Earth's Climate System</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 387</td>
<td>Geospatial Science</td>
<td>4</td>
</tr>
<tr>
<td>EEPS 407</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 413</td>
<td>Introduction To Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 428</td>
<td>Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>EEPS 454</td>
<td>Exploration and Environmental Geophysics</td>
<td>4</td>
</tr>
<tr>
<td>EnSt 364</td>
<td>Field Methods for Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 365</td>
<td>Applied Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 375</td>
<td>Urban Ecology</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 481</td>
<td>Advanced GIS</td>
<td>3</td>
</tr>
<tr>
<td>EnSt 483</td>
<td>Introduction to Spatial Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>LAND 551A</td>
<td>Landscape Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>