BS Environmental Science, Geography, and Management

**GEP FOUNDATION** 11 units

*Environmental Systems*
- GEP 201 Global Environmental Systems (3, GE B1)

*Society, Environment and Development (choose one)*
- GEP 203 Human Geography (3, GE D)
- GEP 206 Society, Environ. & Sustainable Dvlpmnt (3, GE E)
- GEP 305/6 World Regions in Global Context (3, GE UD D)

*Environmental Inquiry and Analysis (take both)*
- GEP 211 GEP Forum (1)
- GEP 280 Foundations in Environ. Data & Analysis (4)

**NATURAL & DATA SCIENCE FOUND 10 units**

*NOTE: Select either the Biological Science Theme or the Physical Science Theme, then select one additional course from an alternative theme*

*Biological Science Theme*
- BIOL 130 Intro Cell Biology and Genetics (4, GE B2, B3)
- BIOL 131 Biological Diversity and Ecology (4, GE B2, B3)

*Physical Science Theme*
- CHEM 110 or CHEM 115A (3-5, GE B1 or B1, B3)
- CHEM 115B (5, GE B1, B3)
- PHYS 114 or 210A (3-4, GE B1 or B3)
- PHYS 214 or 218B (3-4)

*Geospatial Data Science Theme*
- CS 115 Programming I (4)

**BREADTH** 15 units

*NOTE: Choose one course from each category*

*Society, Environment and Development*
- GEP 324 Climate Change & Society (4)
- GEP 325 Global Food Systems (4)
- GEP 330 Environmental History (4)

*Environmental Systems*
- GEP 340 Applied Ecology (3)
- GEP 351 Natural Hazards (3, GE UD B)
- GEP 355 Weather and Climate (3, GE UD B)

*Sustainable Communities*
- GEP 360 Intro to Urban and Regional Planning (4)
- GEP 370 Globalization and the City (4)
- GEP 373 Energy, Technology, & Society (4)

*Geospatial Analysis*
- GEP 387 Introduction to GIS (4)

**PROFESSIONAL PREP & EXPERIENCE** 5 units

*NOTE: * 310 & 311 required; 311 is repeatable but only 1 unit counts here*
- GEP 310 Professional Development (2) *
- GEP 311 Research Colloquium (1) *
- GEP 201b Global Environmental Systems Lab (1, GE B3)
- GEP 312 Professional Conferences (1-2)
- GEP 313 Field Experience (1-2)
- GEP 316 Research Assistant in GEP (1-4)
- GEP 317 Internship (1-3)
- GEP 318 Agroecology in Practice (2)
- GEP 319 Native Plant Propagation in Practice (2)

**SUPPORTING (outside GEP)** 6 units

*NOTE: Substitutions possible in consultation with an advisor. Classes may have LD prerequisites*

<table>
<thead>
<tr>
<th>Biological Science Theme</th>
<th>Physical Science Theme</th>
<th>Data Science Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 314; 322; 323; 324; 327; 329; 330; 332; 333; 334; 335; 337; 338; 341; 351</td>
<td>CHEM 300; 335A; 336A</td>
<td>ANTH 328; BIOL 485</td>
</tr>
<tr>
<td></td>
<td>GEOL 303; 310; 323</td>
<td>ECON 317; ES 314</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 210; 215; 355; 370; 386</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 161; PHYS 381</td>
</tr>
</tbody>
</table>

**GEP ELECTIVES** 21 units

*NOTE: Take 3 courses in one focus area. Take additional electives within any focus area to reach 21 units. Take a 400-level course during junior/senior year (72+ units). Breadth courses do not count as electives. Special topics (GEP 396; 397) may apply to a focus in consultation with an advisor.*

*Focus 1: Environmental Management & Policy*
- GEP 323 Resource Mgmt. & Devel. Global Pers (4)
- GEP 324 Climate Change & Society (4)
- GEP 325 Global Food Systems (4)
- GEP 330 Environmental History (4)
- GEP 333 Natural Resource Planning (4)
- GEP 335 US Environmental Policy (4)
- GEP 336 US Environmental Law (3)
- GEP 337 Landscape History of the Am. West (4)
- GEP 360 Intro to Urban and Regional Planning (4)
- GEP 362 Environmental Impact Assessment (3-4)
- GEP 367 Transportation Policy and Technology (3-4)
- GEP 368 Urban Design (3-4)
- GEP 422 Globalization and Environments (4)
- GEP 431 Restoration and Society (4)

*Focus 2: Environmental Systems*
- GEP 340 Applied Ecology (3)
- GEP 343 Biogeography (4)
- GEP 344 Field Methods (2)
- GEP 345 Lab Methods (2)
- GEP 346 Restoration Ecology (4)
- GEP 350 Geomorphology (4)
- GEP 351 Natural Hazards (3, GE UD B)
- GEP 352 Soil Science (3-4)
- GEP 354 Watershed Hydrology and Management 4
- GEP 355 Weather and Climate (3, GE UD B)
- GEP 447 Conservation Biology (4)
- GEP 456 Global Climate Change (4)

*Focus 3: Energy Management & Design*
- GEP 373 Energy, Technology, & Society (4)
- GEP 374a Strategies for carbon and energy reductions (3)
- GEP 374b Laboratory Methods for Energy (1)
- GEP 375 Renewable & Resilient Energy Sources (4)
- GEP 476 Energy Services and Efficiency (4)

*Focus 4: Geospatial Science*
- GEP 380 Environmental Remote Sensing (4)
- GEP 385 Cartographic Visualization (3-4)
- GEP 388 Environmental GIS (3-4)
- GEP 486 Environmental Data Analysis (4)
- GEP 489 Advanced GIS (3-4)

4/16/21