### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3305</td>
<td>Environmental Communication</td>
</tr>
<tr>
<td>WSES 3307</td>
<td>Systems Thinking</td>
</tr>
<tr>
<td>WSES 4307</td>
<td>Energy, Society, and the Environment</td>
</tr>
<tr>
<td>WSES 1307</td>
<td>Concepts and Controversies in Food Studies</td>
</tr>
<tr>
<td>WSES 3375</td>
<td>Population, Pollution, and Resource Depletion</td>
</tr>
<tr>
<td>WSES 3402</td>
<td>Soils, Land Use, and the Environment</td>
</tr>
<tr>
<td>WSES 3323</td>
<td>Ethical Issues in Agriculture and the Natural Resources</td>
</tr>
<tr>
<td>PBHL 1310</td>
<td>Health and Society: An Introduction to Public Health</td>
</tr>
</tbody>
</table>

### Faculty

- Dr. Barbara Bellows, Center for Environmental Studies Coordinator, Sustainable Landscape Management
- Dr. Carol Thompson, Wetlands and Hydrogeology
- Dr. Christopher Higgins, Ecology
- Dr. Ragani Shrinivasan, Environmental Chemistry
- Dr. Jeffery Justice, Environmental Law
- Dr. Donald McGahan, Soil Science
- Dr. Steven Field, Geology, Environmental Studies
- Dr. Ann McFarland, Watersheds, TIAER Interim Director
- Dr. Kartik Venkataraman, Hydrology, Groundwater Contamination
- Dr. Subi Gandhi, Environment and Public Health
- Mr. Alex Tanter, Environmental Economics
- Mr. Judd Leach, J.D., Environmental Law and Policy
- Dr. Robert Cavazos, Environmental Sociology

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**Center for Environmental Studies**

**Environmental Management and GIS Concentration**

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**Dr. Barbara Bellows, Coordinator**  
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### Freshmen Year

#### FALL SEMESTER
- **ENGL 1301** Composition I 3
- **GEOG 1403** Physical Geology 3
- **MATH 1316** Trigonometry 3
- **CHEM 1411** General Chemistry I 4
- **ENVS 1185** Transitioning to University Studies 1
- **TOTAL** 14

#### SPRING SEMESTER
- **ENGL 1302** Composition II 3
- **COMM 2302** Business and Professional Speaking 3
- **GEOG 1407** Intro to Environmental Science 4
- **MATH 1342** Statistics 3
- **BIOL 1406** Biology for Science Majors 4
- **TOTAL** 17

### Sophomore Year

#### FALL SEMESTER
- **PHIL 1301** Intro to Philosophy 3
- **HIST 1301** US History I 3
- **WSES 3401** Soils 4
- **WSES 2405** Ecology for Natural Resource Managers 4
- **TOTAL** 17

#### SPRING SEMESTER
- **GOVT 2305** Federal Government 3
- **PHIL 2303** Intro to Logic 3
- **WSES 3305** GIS for Natural Resource Scientists 3
- **HIST 1302** US History II 3
- **Env. Politics and Econ. elective** 3
- **TOTAL** 15

### Junior Year

#### FALL SEMESTER
- **POLS 3310** Environmental Politics 3
- **GOVT 2306** Texas Government 3
- **EASC 3350** Environmental Science 3
- **EASC 3360** Remote Sensing 3
- **Environ and Society elective** 3
- **TOTAL** 15

#### SPRING SEMESTER
- **ENVS 4313** Environmental Techniques 3
- **ENVS 4340** Advanced GIS Applications 3
- **WSES 3320** Watershed Management 3
- **TOTAL** 16

### Senior Year

#### FALL SEMESTER
- **ARTS** Creative Arts 3
- **Ecological Science elective** 4
- **Environment and Society elective** 3
- **Research, Internship or Study Away/Abroad (4301, 4341)** 3
- **TOTAL** 13

#### SPRING SEMESTER
- **ENVS 4185** Environmental Seminar 3
- **Water Science elective** 3
- **WSES 3402** Soils, Land Use, and the Environment 4
- **Physical Science elective** 3
- **TOTAL** 13

#### Electives

- **Physical Sciences (Choose 7 credits):**
  - **WSES 2112** Soil Morphology
  - **WSES 3412** Soil Genesis, Morphology, and Classification
  - **WSES 4450** Soil Nutrient Cycling
  - **GEOL 3310** Geomorphology
  - **CHEM 4477** Environmental Chemistry

- **Water Sciences (Select at least one):**
  - **BIOL 4442** Wetland Ecology
  - **BIOL 3340** Intro to Marine Biology
  - **WSES 4306** Water Resources Policy and Management
  - **BIOL 4441** Limnology
  - **ENVE 4441** Basic Hydrology
  - **ENVE 2310** Survey or Environmental Engineering
  - **ENVE 2310** Texas Water Resource Management
  - **HYDR 3400** Mechanics of Fluids
  - **HYDR 4204** Water Sup & Waste Water Treatment
  - **ENVE 3420** Groundwater Hydrology

- **Ecological Sciences (Choose 2):**
  - **WSES 2330** Wildlife Conservation and Management
  - **WSES 4302** Habitat Management
  - **WSES 2309** Biotechnology and Sustainability
  - **BIOL 3353** Ecology and Evolution
  - **PBHL 2310** Intro to Epidemiology

- **Environmental Politics and Economics (Select at least 2):**
  - **POLS 4311** Environmental Law
  - **POLS 4310** International Environmental Issues
  - **ECON 3304** Environmental Economics
  - **SOCI 3312** Environmental Sociology

Revised March 2015, valid until Spring 2017