BACHELOR OF SCIENCE (B.S.) MAJOR IN GEOGRAPHY RESOURCE AND ENVIRONMENTAL STUDIES

Minimum required: 120 semester credit hours

General Requirements

1. The general education core curriculum courses are listed in the degree plan below along with the statewide component code number. See the General Education Core Curriculum ([http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum/](http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum/)) section of this catalog for the Texas State requirements and options in the core curriculum, including Honors courses.

2. This major requires students to select a minor from the approved list of Undergraduate Minors ([http://www.mycatalog.txstate.edu/undergraduate/minors/](http://www.mycatalog.txstate.edu/undergraduate/minors/)) offered at Texas State. Biology, Chemistry, Geology, Anthropology, Computer Science, Mathematics, Plant and Soil Science, or Physics are minors that are highly recommended to complement your Geography major. Other minors may be appropriate depending upon your interests and career goals. Discuss other possible options with your academic advisor.

3. This major requires a minimum of 36 semester credit hours of Geography courses.

4. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.

5. Required major courses include the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1309</td>
<td>Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>or GEO 1310</td>
<td>World Geography</td>
<td></td>
</tr>
<tr>
<td>GEO 2410</td>
<td>Introduction to Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEO 2426</td>
<td>Fundamentals of Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>GEO 3301</td>
<td>Research Methods in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

6. Required Geography core courses include the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 2310</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3313</td>
<td>Natural Resource Use and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select at least two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 3321</td>
<td>Energy Resource Management</td>
</tr>
<tr>
<td>GEO 3434</td>
<td>Water Resources</td>
</tr>
<tr>
<td>GEO 4350</td>
<td>Solid Waste Planning and Management</td>
</tr>
<tr>
<td>GEO 4352</td>
<td>Air Quality Management</td>
</tr>
</tbody>
</table>

7. Required Geography capstone is GEO 4313.

8. Geography electives to bring the required Geography hours to 36 should be selected in consultation with an advisor from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1305</td>
<td>Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3303</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3305</td>
<td>Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3310</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3320</td>
<td>Community and Regional Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3335</td>
<td>Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3340</td>
<td>Political Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3349</td>
<td>World Population</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3425</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEO 3426</td>
<td>Advanced GIS</td>
<td>4</td>
</tr>
<tr>
<td>GEO 4309</td>
<td>Cultural and Political Ecology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4310</td>
<td>Regional Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4314</td>
<td>River Basin Management</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4316</td>
<td>Landscape Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4322</td>
<td>Interpretive Environmental Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4325</td>
<td>Fluvial Processes</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4326</td>
<td>Parks and Protected Places</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4334</td>
<td>Groundwater Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4339</td>
<td>Environmental Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4341</td>
<td>Water Policy</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4380</td>
<td>Internship in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

9. Students must complete a minimum of 36 advanced hours (3000 or 4000 level courses).

10. The minimum number of hours required for this degree program is 120. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the required 120 total or 36 advanced hours.

11. Nine semester credit hours must be writing intensive (WI).

Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1310</td>
<td>Communication Component Code 010</td>
<td>3</td>
</tr>
<tr>
<td>US 1100</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>POSI 2310</td>
<td>Government/Political Science Component Code 070</td>
<td>3</td>
</tr>
</tbody>
</table>

Freshman

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1310</td>
<td>Communication Component Code 010</td>
<td>3</td>
</tr>
<tr>
<td>POSI 2310</td>
<td>Government/Political Science Component Code 070</td>
<td>3</td>
</tr>
<tr>
<td>Component</td>
<td>First Semester Hours</td>
<td>Second Semester Hours</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Life and Physical Sciences Component Code 030</td>
<td>3 GEO 2410</td>
<td>4</td>
</tr>
<tr>
<td>GEO 1309 or 1310</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics Component Code 020</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
<td><strong>13</strong></td>
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</table>

**Sophomore**

<table>
<thead>
<tr>
<th>First Semester Hours</th>
<th>Second Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>COMM 1310 (Component</td>
<td>POSI 2320 (Government/</td>
</tr>
<tr>
<td>Area Option Code 090/</td>
<td>Political Science Component</td>
</tr>
<tr>
<td>091)</td>
<td>Code 070)</td>
</tr>
<tr>
<td>ENG Literature (Component</td>
<td>ENG Literature Select one of</td>
</tr>
<tr>
<td>Area Option Code 090/094)</td>
<td>the following:</td>
</tr>
<tr>
<td>Modern Language 1410 (if</td>
<td>ENG 2310</td>
</tr>
<tr>
<td>required), or elective</td>
<td></td>
</tr>
<tr>
<td>GEO 3301</td>
<td>ENG 2320</td>
</tr>
<tr>
<td>American History</td>
<td>ENG 2330</td>
</tr>
<tr>
<td>Component Code 060</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENG 2340</td>
</tr>
<tr>
<td></td>
<td>ENG 2359</td>
</tr>
<tr>
<td></td>
<td>ENG 2360</td>
</tr>
<tr>
<td></td>
<td>Modern Language 1420 (if</td>
</tr>
<tr>
<td></td>
<td>required), or elective</td>
</tr>
<tr>
<td></td>
<td>PHIL 1305 or 1320 (Language, Philosophy, and</td>
</tr>
<tr>
<td></td>
<td>Culture Component Code 040)</td>
</tr>
<tr>
<td></td>
<td>GEO 2310</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>First Semester Hours</th>
<th>Second Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2313, DAN 2313, MU</td>
<td>Minor</td>
</tr>
<tr>
<td>2313, or TH 2313 (Creative Arts Component Code 050)</td>
<td>6</td>
</tr>
<tr>
<td>Social and Behavioral Sciences Component Code 080</td>
<td>Electives (as needed)</td>
</tr>
<tr>
<td>Minor</td>
<td>3 GEO Advanced Required/ Electives</td>
</tr>
<tr>
<td>GEO 2426</td>
<td>4</td>
</tr>
<tr>
<td>GEO 3313</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>First Semester Hours</th>
<th>Second Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Electives (as needed)</td>
<td>6 Electives (as needed)</td>
</tr>
<tr>
<td>GEO Advanced Required/ Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Total Hours: 120**