BACHELOR OF SCIENCE (B.S.) MAJOR IN GEOGRAPHY WATER RESOURCES

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/) 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/) offered at Texas State. Various minors may be appropriate depending upon your interests and career goals. Biology, Chemistry, Geology, Political Science, Anthropology, Business Administration, Plant and Soil Science, or Nature and Heritage Tourism are highly recommended. 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 Geography 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 3305</td>
<td>Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3434</td>
<td>Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>GEO 4314</td>
<td>River Basin Management</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4325</td>
<td>Fluvial Processes</td>
<td>3</td>
</tr>
<tr>
<td>GEO 4334</td>
<td>Groundwater Resources</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 4421</td>
<td>Hydrogeology</td>
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<tr>
<td>GEO 4341</td>
<td>Water Policy</td>
<td>3</td>
</tr>
<tr>
<td>or GEO 4317</td>
<td>Water Resources Planning</td>
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</tbody>
</table>

7. Required Geography elective course (3 hours) is to be selected in consultation with your academic advisor.

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

9. 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.

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

Course Requirements

<table>
<thead>
<tr>
<th>First Semester Hours</th>
<th>Second Semester Hours</th>
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<tbody>
<tr>
<td>ENG 1310 (Communication Component Code 010)</td>
<td>3 American History Component Code 060</td>
</tr>
<tr>
<td>US 1100</td>
<td>1 ENG 1320 (Communication Component Code 010)</td>
</tr>
<tr>
<td>POSI 2310 (Government/Political Science Component Code 070)</td>
<td>3 Life and Physical Sciences Component Code 030</td>
</tr>
<tr>
<td>Life and Physical Sciences Component Code 030</td>
<td>3 GEO 2410</td>
</tr>
<tr>
<td>GEO 1309 or 1310</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Component Code 020</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Freshman Hours</th>
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<tbody>
<tr>
<td>16</td>
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<tr>
<td>13</td>
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<tr>
<th>Sophomore Hours</th>
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<td>16</td>
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<td>13</td>
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<thead>
<tr>
<th>Junior Hours</th>
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<tr>
<td>16</td>
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<tr>
<td>17</td>
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</table>

<table>
<thead>
<tr>
<th>First Semester Hours</th>
<th>Second Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1310 (Component Area Option Code 090/091)</td>
<td>3 POSI 2320 (Government/Political Science Component Code 070)</td>
</tr>
<tr>
<td>ENG Literature (Component Area Option Code 090/094)</td>
<td>3 ENG Literature Select one of the following:</td>
</tr>
<tr>
<td>Modern Language 1410 (if required, or elective)</td>
<td>4 ENG 2310</td>
</tr>
<tr>
<td>American History Component Code 060</td>
<td>3 ENG 2320</td>
</tr>
<tr>
<td>GEO 3301</td>
<td>3 ENG 2330</td>
</tr>
<tr>
<td>GEO 3305</td>
<td>3 ENG 2340</td>
</tr>
<tr>
<td>or GEO 3421</td>
<td>3 ENG 2359</td>
</tr>
<tr>
<td>or GEO 4421</td>
<td>Modern Language 1420 (if required, or elective)</td>
</tr>
<tr>
<td>or GEO 4317</td>
<td>PHIL 1305 or 1320 (Language, Philosophy, and Culture Component Code 040)</td>
</tr>
<tr>
<td>or GEO 4317</td>
<td>GEO 2426</td>
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<table>
<thead>
<tr>
<th>Minor Hours</th>
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</thead>
<tbody>
<tr>
<td>3 GEO Advanced Required/ Electives</td>
</tr>
<tr>
<td>GEO Advanced Required/ Electives</td>
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<td>----------------------------------</td>
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<tr>
<td></td>
</tr>
<tr>
<td>Minor</td>
</tr>
<tr>
<td>Electives (as needed)</td>
</tr>
<tr>
<td>GEO Advanced Required/ Electives</td>
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<td></td>
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Total Hours: 120