# Bachelor of Science, Major in Geography, Geo-spatial Information Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science, Major in Geography, Geo-spatial Information Sciences</td>
<td>Core Curriculum <a href="catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">link</a></td>
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<tr>
<td>Component Area I (Communication)</td>
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</tr>
<tr>
<td>Component Area II (Mathematics)</td>
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<td>3</td>
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<tr>
<td>Component Area III (Life and Physical Science)</td>
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<tr>
<td>Component Area IV (Language, Philosophy, and Culture)</td>
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</tr>
<tr>
<td>Component Area V (Creative Arts)</td>
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<td>3</td>
</tr>
<tr>
<td>Component Area VI (U.S. History)</td>
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<tr>
<td>Component Area VII (Political Science/Government)</td>
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<tr>
<td>Component Area VIII (Social and Behavioral Sciences)</td>
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</tr>
<tr>
<td>Component Area IX (Component Area Option)</td>
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## Degree Specific Requirements

8 hours (2 courses) of Life and Physical Sciences (beyond the Core Curriculum)  
MATH 1342  
Elementary Statistics  
or STAT 3379  
Statistical Methods in Practice

### Major Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOG 1401</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 3301</td>
<td>Environmental Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3350</td>
<td>Cultural Geography</td>
<td>3</td>
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### Introductory Geography (choose 1 of the following)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOG 1300</td>
<td>People, Place and the Envrnmt</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2355</td>
<td>World Reg Geo-Eur Asia Aust</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 2356</td>
<td>Reg Geo-Lat Am Africa So Asia</td>
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### Introductory Physical Geography (choose one of the following)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GEOG 2320</td>
<td>Sustainability &amp; Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2341</td>
<td>Physical Geography</td>
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<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
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<tr>
<td>GEOL 1405</td>
<td>Geologic &amp; Environmental Hazards</td>
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### Core of Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOG 2464</td>
<td>Intro to Geographic Info Sys</td>
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</tr>
<tr>
<td>GEOG 4365</td>
<td>Applied Geographic Info Systms</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3363</td>
<td>Computer Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4361</td>
<td>Geographic Information Systems for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4468</td>
<td>Remote Sensing</td>
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</tr>
<tr>
<td>GEOG 4367</td>
<td>GIS Programming</td>
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### Applied Cognate (Choose three of the following)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GEOG 3310</td>
<td>Sustainable Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3352</td>
<td>Tourism Geography</td>
<td>3</td>
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<tr>
<td>GEOG 4330</td>
<td>Hydrology and Water Resources</td>
<td>3</td>
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<td>GEOG 4331</td>
<td>Conservation of Natural Res</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4432</td>
<td>Geomorphology</td>
<td>3</td>
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<tr>
<td>GEOG 4333</td>
<td>Field Studies</td>
<td>3</td>
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<tr>
<td>GEOG 4351</td>
<td>Economic Geography</td>
<td>3</td>
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<tr>
<td>GEOG 4356</td>
<td>Urban Geography</td>
<td>3</td>
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<tr>
<td>GEOG 4357</td>
<td>Population Geography</td>
<td>3</td>
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<tr>
<td>GEOG 4399</td>
<td>Transportation Geography</td>
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### Advanced Geography Electives

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>GEOG 4361</td>
<td>Advanced Geography Electives</td>
<td>4</td>
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</tbody>
</table>
### Bachelor of Science, Major in Geography, Geo-spatial Information Sciences

**Minor (Required. Must include at least 9 hours of advanced credit)**

| Total Hours | 120 |

1. MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. GEOG 1401 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) OR the degree specific requirement for Life and Physical Science. Students. Students also applying this course towards the geography major may also need to complete additional coursework in order to fulfill the 120 credit-hour requirement.
3. GEOG 1300 satisfies the Core Curriculum requirement for Component Area IV. Students also applying this course towards the geography major may also need to complete additional coursework in order to fulfill the 120 credit-hour requirement.
4. GEOG 2355 and/or GEOG 2356 fulfill the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture. Students also applying either of these course towards the geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

5. Electives should be used to meet the 120 SCH and 42 advanced hour requirements

#### First Year

<table>
<thead>
<tr>
<th>Component Area II (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)</th>
<th>Hours</th>
<th>Fall</th>
<th>Spring</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)</td>
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<td>ENGL 1301</td>
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<td>HIST 1301</td>
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<td>GEOG 1300, 2355, or 2356</td>
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<td>2</td>
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#### Second Year

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<th>Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)</th>
<th>Hours</th>
<th>Fall</th>
<th>Spring</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOG 2320, 2341, GEOL 1403, or GEOL 1403</td>
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<td>Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)</td>
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<td>GEOG 4361</td>
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<td>HIST 1302</td>
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<td>POLS 2306</td>
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#### Third Year

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<tr>
<th>Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)</th>
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<th>Spring</th>
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<tr>
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<td>GEOG 3363</td>
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</tr>
<tr>
<td>GEOG 4367</td>
<td>3</td>
<td>Life &amp; Physical Science</td>
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<td>Life &amp; Physical Science</td>
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#### Fourth Year

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<th>Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)</th>
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<th>Fall</th>
<th>Spring</th>
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<td>GEOG Applied Cognate Course</td>
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<tr>
<td>GEOG 4468</td>
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<td>Minor Advanced Course</td>
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Bachelor of Science, Major in Geography, Geo-spatial Information Sciences

Minor Advanced Course 3

<table>
<thead>
<tr>
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<tr>
<td>GEOG 4356</td>
<td>Urban Geography</td>
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<td>GEOG 4357</td>
<td>Population Geography</td>
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<tr>
<td>GEOG 4359</td>
<td>Transportation Geography</td>
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</tr>
<tr>
<td>GEOG 4432</td>
<td>Geomorphology</td>
<td>4</td>
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</tbody>
</table>

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in in Geography, Geo-spatial Information Sciences is designed to provide graduates with the following marketable skills:

- GIS programming.
- Ability to understand, identify, and synthesize environmental & population data and produce it into map form.
- GIS & map design and analysis.
- Ability to produce and interpret remotely sensed data.
- Technical writing & statistical analysis.