

# BACHELOR OF SCIENCE, MAJOR GEOGRAPHY (ENVIRONMENT, CULTURE, AND DEVELOPMENT)

Code	Title	Hours
<b>Bachelor of Science, Major in Geography (Environment, Culture, and Development)</b>		
Core Curriculum ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a> )		
Component Area I (Communication)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>2</sup>		8
Component Area IV (Language, Philosophy, and Culture) <sup>3</sup>		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) <sup>4</sup>		3
Component Area IX (Component Area Option)		4
<b>Degree Specific Requirements</b>		
Life and Physical Science (2 Courses Beyond Core)		8
MATH 1342 or STAT 3379	Elementary Statistics <sup>1</sup> Statistical Methods in Practice	3
<b>Major: Foundation</b>		
GEOG 1401	Weather and Climate (Component Area III) <sup>2</sup>	4
Introduction or Regional Geography-Select one of the following:		3
GEOG 1300	People, Place and the Environment <sup>4</sup>	
GEOG 2355	World Reg Geo-Eur Asia Aust <sup>3</sup>	
GEOG 2356	Reg Geo-Lat Am Africa So Asia <sup>3</sup>	
GEOG 3359	Regional Geography:US & Canada (Can only be taken once)	
Physical Geography-Select one of the following:		3
GEOG 2341	Physical Geography	
GEOL 1403	Physical Geology <sup>2</sup>	
GEOL 1405	Geologic & Environmental Hazards <sup>2</sup>	
GEOG 3301	Environmental Geography (Advanced Environmental Core)	3
GEOG 3350	Cultural Geography (Advanced Human Core)	3
GEOG 2464	Intro to Geographic Info Sys	4
<b>Major: Required (Concentration)</b>		
Human Geography-Select four of the following:		12
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 3359	Regional Geography:US & Canada (Can only be taken once)	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Physical/Environmental Geography-Select three of the following:		9-10
GEOG 3320	Sustainability & Environment	
GEOG 4330	Hydrology and Water Resources	
GEOG 4331	Conservation of Natural Res	
GEOG 4333	Field Studies	
GEOG 4432	Geomorphology	
Advanced Geo-Spatial Technique Courses-Select one of the following:		3-4

GEOG 3363	Computer Cartography	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systems	
GEOG 4468	Remote Sensing	
<b>Major: Prescribed Electives</b>		
Advanced GEOG or GEOL Electives		6
GEOG Elective <sup>5</sup>		3
<b>Minor: Required<sup>6,7</sup></b>		
Minor		18
<b>Total Hours</b>		<b>120-122</b>

- <sup>1</sup> MATH 1342 satisfies the Core Curriculum requirement of Component Area II (Mathematics).
- <sup>2</sup> GEOG 1401, GEOL 1403, OR GEOL 1405 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- <sup>3</sup> GEOG 2355, GEOG 2356, WOLC 2311, OR WOLC 2312 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- <sup>4</sup> GEOG 1300 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- <sup>5</sup> Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.
- <sup>6</sup> 12 semester credit hours from minor courses should be used to meet 42 advanced hours requirement.
- <sup>7</sup> All minors can be paired with this degree program.

### Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

### First Year

Fall	Hours	Spring	Hours
Component Area II ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii</a> ) <sup>1</sup>		3 Component Area III ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> )	4
Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )		1 ENGL 1302 <sup>2</sup>	3
ENGL 1301 <sup>2</sup>		3 HIST 1302 <sup>4</sup>	3
GEOG 1401 <sup>3</sup>		4 Introduction or Regional Geography <sup>5, 6, 7</sup>	3
HIST 1301 <sup>4</sup>		3 POLS 2305 <sup>8</sup>	3
	<b>14</b>		<b>16</b>

### Second Year

Fall	Hours	Spring	Hours
Component Area III ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> )		4 Component Area VIII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii</a> )	3
Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> )		3 Advanced GEOG or GEOL	3
GEOG 2341, GEOL 1403, or GEOL 1405 <sup>3</sup>		3 GEOG 3301	3
MATH 1342 or STAT 3379 <sup>1</sup>		3 GEOG 3350	3
POLS 2306 <sup>8</sup>		3 Minor Course <sup>9</sup>	3
	<b>16</b>		<b>15</b>

**Third Year**

Fall	Hours	Spring	Hours
Advanced GEOG or GEOL		3 Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv</a> )	3
GEOG 2464		4 Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )	3
Human Geography <sup>10</sup>		3 Advanced Geo_Spatial Techniques <sup>12</sup>	3-4
Minor Course <sup>9</sup>		3 Advanced Minor Course <sup>9</sup>	3
Physical and Environmental Geography <sup>11</sup>		3-4 Human Geography <sup>10</sup>	3
		<b>16-17</b>	<b>15-16</b>

**Fourth Year**

Fall	Hours	Spring	Hours
Advanced Minor <sup>9</sup>		6 Advanced Minor <sup>9</sup>	3
Human Geography <sup>10</sup>		3 GEOG Elective <sup>13</sup>	3
Component Area III ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> )		4 Human Geography <sup>10</sup>	3
Physical and Environmental Geography <sup>11</sup>		3 Physical and Environmental Geography <sup>11</sup>	3
		<b>16</b>	<b>12</b>

**Total Hours: 120-122**

- <sup>1</sup> MATH 1342 satisfies the Core Curriculum requirement of Component Area II (Mathematics).
- <sup>2</sup> Satisfies Core Curriculum requirement for Component Area I (Communication).
- <sup>3</sup> GEOG 1401 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOG%201401>), GEOL 1403 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOL%201403>), OR GEOL 1405 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOL%201405>) satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
- <sup>4</sup> Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- <sup>5</sup> Select one from the Introduction or Regional Geography Course list below.
- <sup>6</sup> GEOG 1300 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOG%201300>) satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- <sup>7</sup> GEOG 2355 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOG%202355>), GEOG 2356 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=GEOG%202356>), WOLC 2311 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=WOLC%202311>), OR WOLC 2312 (<http://catalog.shsu.edu/archives/2023-2024/search/?P=WOLC%202312>) satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- <sup>8</sup> Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- <sup>9</sup> 12 semester credit hours of the minor should be used to meet the 42 advanced hours requirement.
- <sup>10</sup> Select one from the Human Geography list below.
- <sup>11</sup> Select one from the Physical/Environmental Course list below.
- <sup>12</sup> Select one from the Advance Geo-Spatial Technique Course list below.
- <sup>13</sup> Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.

Code	Title	Hours
<b>Introduction of Regional Geography Courses <sup>5</sup></b>		
GEOG 1300	People, Place and the Envrnmt	3
GEOG 2355	World Reg Geo-Eur Asia Aust	3
GEOG 2356	Reg Geo-Lat Am Africa So Asia	3
GEOG 3359	Regional Geography:US & Canada	3
<b>Code Title Hours</b>		
<b>Human Geography Courses <sup>10</sup></b>		
GEOG 3310	Sustainable Development	3

GEOG 3352	Tourism Geography	3
GEOG 3359	Regional Geography:US & Canada	3
GEOG 4351	Economic Geography	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4359	Transportation Geography	3
GEOG 4360	Cultural Field Study	3

Code	Title	Hours
<b>Physical/Environment Geography Courses <sup>11</sup></b>		
GEOG 3320	Sustainability & Environment	3
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Res	3
GEOG 4432	Geomorphology	4
GEOG 4333	Field Studies	3

Code	Title	Hours
<b>Advanced Geo-Spatial Technique Courses <sup>12</sup></b>		
GEOG 3363	Computer Cartography	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Info Systms	3
GEOG 4468	Remote Sensing	4

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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 Environmental Science (Pollution Abatement) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental and human problems.
- Think critically and problem solve.
- Use statistics to evaluate hypotheses.
- Communicate and engage with technical writing
- Gather, manage, analyze and interpret spatially referenced data.
- Work with maps, spatially referenced databases, and range of geospatial technologies.
- Apply knowledge and awareness of ecosystems and cultural environments in order to address a range of environmental and social issues,