

BACHELOR OF SCIENCE, MAJOR IN GEOGRAPHY, GEO-SPATIAL INFORMATION SCIENCES

Code	Title	Hours
Bachelor of Science, Major in Geography, Geo-spatial Information Sciences		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		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)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1369	Elementary Statistics	3
8 hours (2 courses) of Life and Physical Sciences (beyond the Core Curriculum)		8
Major		
Introductory Geography (choose 2 of the following)		6-7
GEOG 1300	People, Place and the Envrnmt ²	
GEOG 1401	Weather and Climate ³	
GEOG 2355	World Reg Geo-Eur Asia Aust ⁴	
GEOG 2356	Reg Geo-Lat Am Africa So Asia ⁴	
Human or Environmental Geography (choose one of the following)		3
GEOG 2320	Sustainability & Environment	
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
GEOG 3350	Cultural Geography	
Core of Concentration		
GEOG 2464	Intro to Geographic Info Sys	4
GEOG 4365	Applied Geographic Info Systms	3
GEOG 3363	Computer Cartography	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4468	Remote Sensing	4
GEOG 4367	GIS Programming	3
Applied Cognate (Choose two of the following)		6-7
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 4330	Hydrology and Water Resources	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4432	Geomorphology	
Advanced Geography Electives		6
Minor (Required. Must include at least 9 hours of advanced credit)		18
Advanced Electives ⁵		6

Electives	3
Total Hours	121-123

- ¹ PHIL 2303 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- ² 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.
- ³ 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.
- 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

Fall	Hours	Spring	Hours
Component Area II (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii)		3 ENGL 1302 ¹	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)		4 HIST 1301 ³	3
ENGL 1301 ¹		3 MATH 1369	3
Introductory GEOG Courses ²		6-7 POLS 2305 ⁴	3
	16-17		12

Second Year

Fall	Hours	Spring	Hours
GEOG 2464		4 Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3
HIST 1302 ³		3 GEOG 4365	3
Life and Physical Sciences		4 GEOG 4361	3
POLS 2306 ⁴		3 Life and Physical Science	4
		Minor Course	3
	14		16

Third Year

Fall	Hours	Spring	Hours
Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiiv)		3 Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4
Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)		4 GEOG Advanced Elective	3
GEOG 2320, 2341, 3301, or 3350		3 GEOG 3363	3
GEOG 4367		3 Minor Advanced Courses	6
Minor Course		3	
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)		3 Advanced Electives ⁵	6
Elective		3 GEOG Advanced Elective	3
GEOG Applied Cognate Course ⁶		3 GEOG Applied Cognate Course ⁶	3-4
GEOG 4468		4 Minor Advanced Course	3
Minor Course (advanced)		3	
		16	15-16

Total Hours: 121-123

- ¹ Satisfies Core Curriculum requirement for Component Area I (Communications).
- ² INTRODUCTORY GEOG courses: GEOG 1300, GEOG 1401, GEOG 2355, GEOG 2356. GEOG 1401 also satisfies the Core Curriculum requirement for Component Area III (Life and Physical sciences). GEOG 1300 also satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), while GEOG 2355 and GEOG 2356 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture. Students also applying these courses towards the geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.
- ³ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- ⁴ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁵ Electives should be used to get to 120 SCH and 42 advanced hours
- ⁶ See, Geography Applied Congregate course listing below.

Code	Title	Hours
Geography Applied Congregate Courses⁶		
GEOG 3310	Sustainable Development	3
GEOG 3352	Tourism Geography	3
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Res	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4359	Transportation Geography	3
GEOG 4432	Geomorphology	4

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.