BACHELOR OF SCIENCE, MAJOR IN GEOLOGY

Code	Title	Hours					
Bachelor of Science, Major in Geology							
Core Curriculum (http://catalog.curriculum/)	shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-						
Component Area I (Communicat	ion)	6					
Component Area II (Mathematics) 1							
Component Area III (Life and Physical Science) ²							
Component Area IV (Language, Philosophy, and Culture)							
Component Area V (Creative Arts	s)	3					
Component Area VI (U.S. History	<i>(</i>)	6					
Component Area VII (Political Science/Government)							
Component Area VIII (Social and Behavioral Sciences)							
Component Area IX (Component	Area Option)	4					
Degree Specific Requirements							
CHEM 1411	General Chemistry I	8					
& CHEM 1412	and General Chemistry II ²						
MATH 1420	Calculus I	7-8					
& MATH 1430	and Calculus II ¹						
or MATH 3379	Statistical Mthods in Practice						
PHYS 1301	General Phy-Mechanics & Heat	8					
& PHYS 1101 & PHYS 1302	and General Physics Laboratory I and Gen Phy-Snd,Lght, Elec, & Mag						
& PHYS 1102	and General Physics Laboratory II ³						
Major Core							
GEOL 1403	Physical Geology	4					
or GEOL 1405	Geologic & Environmental Hazards						
GEOL 1404	Historical Geology	7					
& GEOL 3301	and Field Methods						
GEOL 3404	Mineralogy	8					
& GEOL 3405	and Petrology						
GEOL 4304	Geochemistry	3					
GEOL 4400	Stratigraphy & Sedimentation	14					
& GEOL 4402	and Structural Geology						
& GEOL 4360 & GEOL 4361	and Field Geology and Field Geology						
GEOL 4426	Hydrogeology	3-4					
or GEOL 4320	Petroleum Geology	0.					
Major	3,						
Advanced Geology electives		10					
Minor (if required)							
Courses in accepted minor (adva	anced)	6					
Courses in accepted minor		12					
Total Hours		120-122					

MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.

² CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

PHYS 1411 and PHYS 1422 also satisfy this requirement.

First Year						
Fall	Hours	Spring	Hours	Summer	Hours	
CHEM 1411 ¹		4 CHEM 1412 ¹		4 GEOL 3301		3
ENGL 1301 ²		3 ENGL 1302 ²		3		
GEOL 1403 or 1405		4 GEOL 1404		4		
MATH 1420 ³		4 MATH 1430 or 3379		3-4		
		15		14-15		3
Second Year				11.10		
Fall	Hours	Spring	Hours			
GEOL 3404	riouis	4 GEOL 3405	riours	4		
Minor Course		3 Minor Course		3		
PHYS 1301 & PHYS 1101 (or PHYS		4 PHYS 1302 & PHYS 1102 (or PHYS		4		
1411)		1422)				
POLS 2305 ⁴		3 POLS 2306 ⁴		3		
		14		14		
Third Year						
Fall	Hours	Spring	Hours			
Component		3 Component		3		
Area IV (http://		Area V (http://				
catalog.shsu.edu/		catalog.shsu.edu/				
undergraduate/		undergraduate/				
academic-policies-		academic-policies-				
procedures/degree-		procedures/degree-				
requirements-		requirements-				
academic-guidelines/		academic-guidelines/				
core-curriculum/		core-curriculum/				
#componentareaiv)		#componentareav)				
GEOL 4400		4 GEOL 4402		4		
HIST 1301 ⁵		3 HIST 1302 ⁵		3		
Minor Course		3 Minor Course		3		
		13		13		
Fourth Year						
Fall	Hours	Spring	Hours	Summer	Hours	
Component		3 Component		3 GEOL 4360		6
Area VIII (http://		Area IX (http://		& GEOL 4361		•
catalog.shsu.edu/		catalog.shsu.edu/		u 0202 1001		
undergraduate/		undergraduate/				
academic-policies-		academic-policies-				
procedures/degree-		procedures/degree-				
requirements-		requirements-				
academic-guidelines/		academic-guidelines/				
core-curriculum/		core-curriculum/				
#componentareaviii)		#componentareaix)				
GEOL 4304		3 GEOL 4426 or 4320		3-4		
GEOL Advanced elective	9	3 GEOL Advanced elective	9	4		
GEOL Advanced elective	e	3 Minor Course (advanced)		3		
Minor Course		(advanced)				
(advanced)		J				
(davanoca)						

13-14

6

Total Hours: 120-122

15

Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Satisfies Core Curriculum requirement for Component Area I (Communications).

Satisfies Core Curriculum requirement for Component Area II (Mathematics).

- ⁴ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Movement).
- ⁵ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

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 Geology is designed to provide graduates with the following marketable skills:

- · Observation, data collection, analysis, and interpretation.
- · Prepare, process, and present data.
- · Handle information in a range of different mediums, e.g. textual, numerical, oral, graphical.
- · Written and verbal communication skills.
- · Report writing skills.
- · Problem-solving skills and lateral thinking.
- · Self-motivation and resilience.
- · Team-working skills and the ability to work on your own initiative.