BACHELOR OF SCIENCE, MAJOR IN GEOLOGY (GEOSCIENCE)

Code	Title	Hour
Bachelor of Science, Major		noui
-	talog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/co	ore-
curriculum/)		
Component Area I (Commu	inication)	
Component Area II (Mather	natics)	
Component Area III (Life an	nd Physical Science)	
Component Area IV (Langu	age, Philosophy, and Culture)	
Component Area V (Creativ	re Arts)	
Component Area VI (U.S. H	istory)	
Component Area VII (Politio	cal Science/Government)	
Component Area VIII (Socia	al and Behavioral Sciences)	
Component Area IX (Compo	onent Area Option)	
Degree Specific Requireme	ents	
CHEM 1411	General Chemistry I	
& CHEM 1412	and General Chemistry II	
Select two of the following	or more advanced courses:	6-
MATH 1314	Pre Calculus Algebra ²	
MATH 1316	Plane Trigonometry ²	
MATH 1410	Elementary Functions ²	
MATH 1420	Calculus I ²	
PHYS 1301	General Phy-Mechanics & Heat	
& PHYS 1101	and General Physics Laboratory I	
& PHYS 1302 & PHYS 1102	and Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II ³	
Major Core		
GEOL 1403	Physical Geology	
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404	Historical Geology	
& GEOL 3301	and Field Methods	
GEOL 3404	Mineralogy	
& GEOL 3405	and Petrology	
GEOL 4400	Stratigraphy & Sedimentation	
& GEOL 4402	and Structural Geology	
GEOL 4413	Methods in Applied Geophysics	
& GEOL 4304	and Geochemistry	
Major		
Advanced Geology elective	S	1
Minor (if required)		
Advanced courses in accep		
Courses in accepted minor		1:

¹ CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

- ² MATH 1410 or MATH 1420 satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option). If the mathematics requirement is satisfied by MATH 1316 and MATH 1314, then KINE 2115 is recommended to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
- ³ PHYS 1411 and PHYS 1422 also satisfy this requirement.

Note: A minor in geography, science, or mathematics is strongly recommended.

First Year

First fear						
Fall	Hours	Spring	Hours	Summer	Hours	
ENGL 1301 ¹		3 CHEM 1411 ³		4 GEOL 3301		3
GEOL 1403 or 1405		4 ENGL 1302 ¹		3		
KINE 2115 ²		1 GEOL 1404		4		
MATH 1314 or 1410 ²		3-4 MATH 1420 or 1316 ²		3-4		
PHYS 1301		4				
& PHYS 1101 (or PHYS		-				
1411)						
		15-16		14-15		3
Second Year		13-10		14-15		5
Fall		Carina	Llaura			
	Hours	Spring	Hours			
CHEM 1412 ³		4 GEOL 3405		4		
GEOL 3404		4 Minor Course		3		
Minor Course		3 PHYS 1302		4		
		& PHYS 1102 (or PHYS				
		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://		5		
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		
GEOL Advanced Electiv	e	3 GEOL Advanced Elective	2	3		
HIST 1301 ⁵	•	3 HIST 1302 ⁵	-	3		
Minor Course		3 Minor Course		3		
1		16		16		
Fourth Year						
Fall	Hours	Spring	Hours			
Component		3 Component		3		
Area VIII (http://		Area IX (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/				
#componentareaviii)		#componentareaix)		4		
GEOL 4304		3 GEOL 4413		4		
GEOL Advanced Electiv		3 GEOL Advanced Elective	9	3		
GEOL Advanced elective	e	3 Minor Course		3		
Minor Course		3				
		15		13		

Total Hours: 120-122

- ¹ Satisfies Core Curriculum requirement for Component Area I (Communications).
- ² Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option) if MATH 1410 or MATH 1420 is included. If both MATH 1314 and MATH 1316 satisfy the mathematics requirement, then KINE 2115 is recommended to fulfill the requirement for Component Area IX (Component Area Option) requirement.
- ³ Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
- ⁴ Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁵ Satisfies he Core Curriculum requirement for Component Area VI (U.S. History).

Note: A minor in geography, science, or mathematics is strongly recommended

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 (Geoscience) is designed to provide graduates with the following marketable skills:

- Skills in observation, data collection, analysis and interpretation.
- · Ability to prepare, process, and present data.
- · Ability to 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.