BACHELOR OF SCIENCE, MAJOR IN GEOLOGY (GEOSCIENCE)

Code	Title	Hours
Bachelor of Science, Major in Geolo	gy (Geoscience)	
Core Curriculum (http://catalog.shscurriculum/)	u.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-	
Component Area I (Communication)		6
Component Area II (Mathematics) 1		3
Component Area III (Life and Physic	al Science) ²	8
Component Area IV (Language, Phile	osophy, and Culture)	3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Scien	ce/Government)	6
Component Area VIII (Social and Be	havioral Sciences)	3
Component Area IX (Component Area	ea Option) ¹	4
Degree Specific Requirements		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II 2	8
Select two of the following or more		6-8
MATH 1314	Pre Calculus Algebra ¹	
MATH 1316	Plane Trigonometry ¹	
MATH 1410	Elementary Functions ¹	
MATH 1420	Calculus I 1	
PHYS 1301	General Phy-Mechanics & Heat	4
& PHYS 1101	and General Physics Laboratory I ³	
or PHYS 1411	Introduction To Physics I	
PHYS 1302	Gen Phy-Snd,Lght, Elec, & Mag	4
& PHYS 1102	and General Physics Laboratory II ³	
or PHYS 1422	Introduction To Physics II	
Major Core		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic & Environmental Hazards	
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404	Mineralogy	8
& GEOL 3405	and Petrology	
GEOL 4304	Geochemistry	3
GEOL 4400	Stratigraphy & Sedimentation	8
& GEOL 4402	and Structural Geology	
GEOL 4426	Hydrogeology	4
or GEOL 4320	Petroleum Geology	
Major		
Advanced Geology electives		15
Minor (if required)		
Advanced courses in accepted mind	or	6
Courses in accepted minor		12
Total Hours		120-122

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).

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

3 PHYS 1411 and PHYS 1422 also satisfy this requirement.

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

Fi	ret	Year	•

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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 & PHYS 1101 (or PHYS 1411)		4				
		15-16		14-15		3
Second Year						

Second Year					
Fall	Hours	Spring	Hours		
CHEM 1412 ³		4 GEOL 3405		4	
GEOL 3404		4 Minor Course		3	
Minor Course		3 PHYS 1302 & PHYS 1102 (or PHYS 1422)		4	
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	
GEOL Advanced Elec	tive	3 GEOL Advanced Elective	9	3	
HIST 1301 ⁵		3 HIST 1302 ⁵		3	
Minor Course		3 Minor Course		3	
		16		16	

Fourth Year

Fall	Hours	Spring	Hours	
Component		3 Component		3
Area VIII (http://		Area IX (http://		
catalog.shsu.edu	I /	catalog.shsu.edu/		
undergraduate/		undergraduate/		
academic-policie	es-	academic-policies-		
procedures/degre	ee-	procedures/degree-		
requirements-		requirements-		
academic-guideli	ines/	academic-guidelines/		
core-curriculum/		core-curriculum/		
#componentarea	aviii)	#componentareaix)		
GEOL 4304		3 GEOL 4426 or 4320		4
GEOL Advanced I	Elective	3 GEOL Advanced Elective	9	3

GEOL Advanced elective	3 Minor Course (advanced)	3	
Minor Course (advanced)	3		
	15	13	

Total Hours: 120-122

- Satisfies Core Curriculum requirement for Component Area I (Communications).
- 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.
- Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
- Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
- 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:

- · 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.