BACHELOR OF SCIENCE, MAJOR IN GEOLOGY

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-geology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Ge	ology	
Core Curriculum		
Component Area I (Communicati	ion)	6
Component Area II (Mathematics	3	
Component Area III (Life and Phy	8	
Component Area IV (Language, F	3	
Component Area V (Creative Arts	3	
Component Area VI (U.S. History	6	
Component Area VII (Political Sc	6	
Component Area VIII (Social and	Behavioral Sciences)	3
Component Area IX (Component	Area Option) 1	4
Degree Specific Requirements		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II $^{\rm 2}$	8
MATH 1420 & MATH 1430	Calculus I and Calculus II ¹	7-8
or MATH 3379	Statistical Methods in Practice	
PHYS 1301 & PHYS 1101 & PHYS 1302 & PHYS 1102	General Physics-Mechanics and Heat and General Physics Laboratory I and General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	8
Major: Foundation		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic & Environmental Hazards	
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4304	Geochemistry	3
GEOL 4400 & GEOL 4402 & GEOL 4360 & GEOL 4361	Stratigraphy & Sedimentation and Structural Geology and Field Geology and Field Geology	14
GEOL 4426	Hydrogeology	3-4
or GEOL 4320	Petroleum Geology	
Major: Prescribed Electives		
GEOL Advanced Electives		10
Minor: Required ⁴		
Minor (Advanced)		6
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.

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 the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Bachelor of Science, Major in Geology

Notes

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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.

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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						
Fall	Hours	Spring	Hours			
GEOL 3404		4 GEOL 3405		4		
Minor ⁴		3 Minor ⁴		3		
PHYS 1301		4 PHYS 1302		4		
& PHYS 1101 ¹		& PHYS 1102 ¹				
POLS 2305 ⁵		3 POLS 2306 ⁵		3		
		14		14		
Third Year						
Fall	Hours	Spring	Hours			
Component Area IV		3 Component Area V		3		
GEOL 4400		4 GEOL 4402		4		
HIST 1301 ⁶		3 HIST 1302 ⁶		3		
Minor ⁴		3 Minor ⁴		3		
		13		13		
Fourth Year						
Fall	Hours	Spring	Hours	Summer	Hours	
Component Area VIII		3 Component Area IX		3 GEOL 4360 & GEOL 4361		6
GEOL 4304		3 GEOL 4426 or 4320		3-4		
GEOL Advanced		3 GEOL Advanced		4		
Electives		Electives				
GEOL Advanced Electives		3 Minor Advanced ⁴		3		
Minor Advanced ⁴		3				

Total Hours: 120-122

13-14

6

15

⁴ All minors can be paired with this degree program.

Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). PHYS 1411 and PHYS 1422 also satisfy this requirement.

² Satisfies Core Curriculum requirement for Component Area I (Communications).

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.

All minors can be paired with this degree program.

Satisfies Core Curriculum requirement for Component Area VII (Political Science/Movement).

⁶ Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

Notes

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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.

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.