

BACHELOR OF SCIENCE, MAJOR IN GEOLOGY

Code	Title	Hours
Bachelor of Science, Major in Geology		
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		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II ¹	8
MATH 1420 & MATH 1430 or MATH 3379	Calculus I and Calculus II ² Statistical Methods in Practice	7-8
PHYS 1301 & PHYS 1101 & PHYS 1302 & PHYS 1102	General Phy-Mechanics & Heat and General Physics Laboratory I and Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II ³	8
Major Core		
GEOL 1403 or GEOL 1405	Physical Geology Geologic Hazards & Resources	4
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4400 & GEOL 4402 & GEOL 4360 & GEOL 4361	Stratigraphy & Sedimentation and Structural Geology and Field Geology and Field Geology	14
GEOL 4413 & GEOL 4304	Methods in Applied Geophysics and Geochemistry	7
Major		
Advanced Geology electives		9
Minor (if required)		
Courses in accepted minor (advanced)		6
Courses in accepted minor		12
Total Hours		120-121

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 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.

³ 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

Fall	Hours	Spring	Hours
GEOL 3404		4 GEOL 3405	4
Minor Course		3 Minor Course	3
PHYS 1301 & PHYS 1101 (or PHYS 1411)		4 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 Area IV (http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviv)		3 Component Area V (http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav)	3
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 Area VIII (http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii)		3 Component Area IX (http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaix)		3 GEOL 4360 & GEOL 4361	6
GEOL 4304		3 GEOL 4413		4	
GEOL Advanced elective		3 GEOL Advanced elective		3	
GEOL Advanced elective		3 Minor Course (advanced)		3	
Minor Course (advanced)		3			
			15	13	6

Total Hours: 120-121

¹ Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).² Satisfies Core Curriculum requirement for Component Area I (Communications).³ 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:

- 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.