

# 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
<b>Bachelor of Science, Major in Geology</b>		
<b>Core Curriculum (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a>)</b>		
Component Area I (Communication)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>2,3</sup>		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) <sup>1</sup>		4
<b>Degree Specific Requirements</b>		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II <sup>2</sup>	8
MATH 1420 & MATH 1430 or MATH 3379	Calculus I and Calculus II <sup>1</sup> Statistical Methods in Practice	7-8
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
<b>Major: Foundation</b>		
GEOL 1403 or GEOL 1405	Physical Geology Geologic & Environmental Hazards	4
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 or GEOL 4320	Hydrogeology Petroleum Geology	3-4
<b>Major: Prescribed Electives</b>		
GEOL Advanced Electives		10
<b>Minor: Required <sup>4</sup></b>		
Minor (Advanced)		6
Minor		12
<b>Total Hours</b>		<b>120-122</b>

<sup>1</sup> 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.

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

<sup>3</sup> PHYS 1411 and PHYS 1422 also satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

<sup>4</sup> All minors can be paired with this degree program.

### Notes

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.

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### First Year

Fall	Hours	Spring	Hours	Summer	Hours
CHEM 1411 <sup>1</sup>		4 CHEM 1412 <sup>1</sup>		4 GEOL 3301	3
ENGL 1301 <sup>2</sup>		3 ENGL 1302 <sup>2</sup>		3	
GEOL 1403 or 1405		4 GEOL 1404		4	
MATH 1420 <sup>3</sup>		4 MATH 1430 or 3379		3-4	
		<b>15</b>		<b>14-15</b>	<b>3</b>

### Second Year

Fall	Hours	Spring	Hours	Summer	Hours
GEOL 3404		4 GEOL 3405		4	
Minor <sup>4</sup>		3 Minor <sup>4</sup>		3	
PHYS 1301 & PHYS 1101		4 PHYS 1302 & PHYS 1102		4	
POLS 2305 <sup>5</sup>		3 POLS 2306 <sup>5</sup>		3	
		<b>14</b>		<b>14</b>	

### Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav</a> )		3 Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav</a> )		3	
GEOL 4400		4 GEOL 4402		4	
HSTY 1301 <sup>6</sup>		3 HSTY 1302 <sup>6</sup>		3	
Minor <sup>4</sup>		3 Minor <sup>4</sup>		3	
		<b>13</b>		<b>13</b>	

### Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area VIII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii</a> )		3 Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">http:// catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii</a> )		3 GEOL 4360 & GEOL 4361	6

GEOL 4304	3 GEOL 4426 or 4320	3-4	
GEOL Advanced Electives	3 GEOL Advanced Electives	4	
GEOL Advanced Electives	3 Minor Advanced <sup>4</sup>	3	
Minor Advanced <sup>4</sup>	3		
	<b>15</b>	<b>13-14</b>	<b>6</b>

**Total Hours: 120-122**

- <sup>1</sup> Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). PHYS 1411 and PHYS 1422 also satisfy this requirement.
- <sup>2</sup> Satisfies Core Curriculum requirement for Component Area I (Communication).
- <sup>3</sup> 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.
- <sup>4</sup> All minors can be paired with this degree program.
- <sup>5</sup> Satisfies Core Curriculum requirement for Component Area VII (Political Science/Movement).
- <sup>6</sup> Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

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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.