

# BACHELOR OF SCIENCE, MAJOR IN GEOLOGY (GEOSCIENCE)

## Bachelor of Science, Major in Geology (Geoscience)

**Core Curriculum** ([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))

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 <sup>1</sup>	8
Select two of the following or more advanced courses:		6-8
MATH 1314	Pre Calculus Algebra	
MATH 1316	Plane Trigonometry	
MATH 1410	Elementary Functions <sup>2</sup>	
MATH 1420	Calculus I <sup>2</sup>	
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	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	Stratigraphy And Sedimentation and Structural Geology	8
GEOL 4413 & GEOL 4304	Methods In Applied Geophysics and Geochemistry	7

### Major

Advanced Geology electives	15
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### Minor (if required)

Courses in accepted minor	6
Courses in accepted minor	12

Total Hours 120-122

<sup>1</sup> Satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

<sup>2</sup> MATH 1410 or MATH 1420 satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

### Note

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

### First Year

Fall	Hours Spring	Hours Summer	Hours
ENGL 1301 <sup>1</sup>	3 CHEM 1411 <sup>3</sup>	4 GEOL 3301	3
GEOL 1403	4 ENGL 1302 <sup>1</sup>	3	

MATH 1314 or 1410 <sup>2</sup>	3 GEOL 1404	4
PHYS 1301 & PHYS 1101	4 MATH 1420 or 1316 <sup>2</sup>	4
	15-16	14-15
<b>Second Year</b>		<b>3</b>
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
CHEM 1412 <sup>4</sup>	4 GEOL 3405	4
GEOL 3404	4 Minor Course	3
Minor Course	3 PHYS 1302 & PHYS 1102	4
POLS 2305 <sup>4</sup>	3 POLS 2306 <sup>4</sup>	3
	14	14
<b>Third Year</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area IV (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaiv)	3 Component Area V (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav)	3
GEOL 4400	4 GEOL 4402	4
GEOL Advanced Elective	3 GEOL Advanced Elective	3
HIST 1301 <sup>5</sup>	3 HIST 1302 <sup>5</sup>	3
Minor Course	3 Minor Course	3
	16	16
<b>Fourth Year</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area VIII (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii)	3 Component Area IX (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaix)	3
GEOL 4304	3 GEOL 4413	4
GEOL Advanced Elective	3 GEOL Advanced Elective	3
GEOL Advanced elective	3 Minor Course	3
Minor Course	3	
	15	13

Total Hours: 120-122

- <sup>1</sup> Satisfies Core Curriculum requirement for Component Area I (Communications).
- <sup>2</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
- <sup>3</sup> Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
- <sup>4</sup> Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
- <sup>5</sup> Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).