

# BACHELOR OF SCIENCE, MAJOR IN GEOLOGY (GEOSCIENCE)

Code	Title	Hours
<b>Bachelor of Science, Major in Geology (Geoscience)</b>		
<b>Core Curriculum</b> (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
<b>Degree Specific Requirements</b>		
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 <sup>2</sup>	
MATH 1316	Plane Trigonometry <sup>2</sup>	
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 <sup>3</sup>	8
<b>Major Core</b>		
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 & Sedimentation and Structural Geology	8
GEOL 4413 & GEOL 4304	Methods in Applied Geophysics and Geochemistry	7
<b>Major</b>		
Advanced Geology electives		15
<b>Minor (if required)</b>		
Courses in accepted minor		6
Courses in accepted minor		12
Total Hours		120-122

<sup>1</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>2</sup> 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).

<sup>3</sup> PHYS 1411 and PHYS 1422 also satisfy this requirement.

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

**First Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours Summer</b>	<b>Hours</b>
ENGL 1301 <sup>1</sup>	3 CHEM 1411 <sup>3</sup>	4 GEOL 3301	3
GEOL 1403	4 ENGL 1302 <sup>1</sup>	3	
KINE 2115 <sup>2</sup>	1 GEOL 1404	4	
MATH 1314 or 1410 <sup>2</sup>	3-4 MATH 1420 or 1316 <sup>2</sup>	3-4	
PHYS 1301 & PHYS 1101 (or PHYS 1411)	4		
	15-16	14-15	3

**Second Year**

<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 (or PHYS 1422)	4
POLS 2305 <sup>4</sup>	3 POLS 2306 <sup>4</sup>	3
	14	14

**Third Year**

<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/ #componentareav)	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

**Fourth Year**

<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

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

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