

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)

| | |
|---|---|
| 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 |
| Select two of the following or more advanced courses: | | 6-8 |
| MATH 1314 | Pre Calculus Algebra | |
| MATH 1316 | Plane Trigonometry | |
| MATH 1410 | Elementary Functions ² | |
| MATH 1420 | Calculus I ² | |
| 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 |
|----------------------------|----|

Minor (if required)

| | |
|---------------------------|----|
| Courses in accepted minor | 6 |
| Courses in accepted minor | 12 |

Total Hours 120-122

¹ CHEM courses satisfy the requirement for Component Area III and the degree specific requirement.

² MATH 1410 or MATH 1420 satisfy one hour of Component Area IX.

Note

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

First Year

| Fall | Hours Spring | Hours Summer | Hours |
|--------------------------|--------------------------|--------------|-------|
| GEOL 1403 | 4 GEOL 1404 | 4 GEOL 3301 | 3 |
| PHYS 1301 & PHYS 1101 | 4 CHEM 1411 ² | 4 | |

| | | |
|---|---|--------------|
| ENGL 1301 ¹ | 3 ENGL 1302 ¹ | 3 |
| MATH 1314 or 1316 | 3 MATH 1410 or 1420 ³ | 4 |
| | 14 | 15 |
| Second Year | | |
| Fall | Hours Spring | Hours |
| GEOL 3404 | 4 GEOL 3405 | 4 |
| CHEM 1412 ⁴ | 4 PHYS 1302 & PHYS 1102 | 4 |
| POLS 2305 ⁴ | 3 POLS 2306 ⁴ | 3 |
| Minor | 3 Minor | 3 |
| | 14 | 14 |
| Third Year | | |
| Fall | Hours Spring | Hours |
| GEOL 4400 | 4 GEOL 4402 | 4 |
| Geology Advanced elective | 3 Geology Advanced elective | 3 |
| HIST 1301 ⁵ | 3 HIST 1302 ⁵ | 3 |
| 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 |
| Minor | 3 Minor | 3 |
| | 16 | 16 |
| Fourth Year | | |
| Fall | Hours Spring | Hours |
| GEOL 4304 | 3 GEOL 4413 | 4 |
| Geology Advanced elective | 3 Geology Advanced elective | 3 |
| Geology Advanced elective | 3 Component Area IX (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaix) | 3 |
| Component Area VIII (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareaviii) | 3 Minor | 3 |
| Minor | 3 | |
| | 15 | 13 |
| Total Hours: 120 | | |

¹ Satisfies Component Area I.

- 2 Satisfies 4 hours of Component Area III.
- 3 Satisfies Component Area II and one hour of Component Area IX.
- 4 Satisfies Component Area VII.
- 5 Satisfies Component Area VI.