

# BACHELOR OF SCIENCE, MAJOR IN GEOLOGY

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

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

## 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                        |              |
|   | 15  | 14-15                      | 3            |
| <b>Second Year</b>  |   |                            |              |
| <b>Fall</b>   | <b>Hours Spring</b>   | <b>Hours</b>               |              |
| GEOL 3404   | 4 GEOL 3405   | 4                          |              |
| Minor Course  | 3 Minor Course  | 3                          |              |
| PHYS 1301<br>& PHYS 1101 (or PHYS<br>1411)  | 4 PHYS 1302<br>& PHYS 1102 (or PHYS<br>1422)  | 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<br>(catalog.shsu.edu/<br>undergraduate/<br>academic-policies-<br>procedures/degree-<br>requirements-<br>academic-guidelines/<br>core-curriculum/<br>#componentareav)      | 3 Component Area V<br>(catalog.shsu.edu/<br>undergraduate/<br>academic-policies-<br>procedures/degree-<br>requirements-<br>academic-guidelines/<br>core-curriculum/<br>#componentareav)   | 3                          |              |
| GEOL 4400   | 4 GEOL 4402   | 4                          |              |
| HIST 1301 <sup>5</sup>  | 3 HIST 1302 <sup>5</sup>  | 3                          |              |
| Minor Course  | 3 Minor Course  | 3                          |              |
|   | 13  | 13                         |              |
| <b>Fourth Year</b>  |   |                            |              |
| <b>Fall</b>   | <b>Hours Spring</b>   | <b>Hours Summer</b>        | <b>Hours</b> |
| Component Area VIII<br>(catalog.shsu.edu/<br>undergraduate/<br>academic-policies-<br>procedures/degree-<br>requirements-<br>academic-guidelines/<br>core-curriculum/<br>#componentareaviii) | 3 Component Area IX<br>(catalog.shsu.edu/<br>undergraduate/<br>academic-policies-<br>procedures/degree-<br>requirements-<br>academic-guidelines/<br>core-curriculum/<br>#componentareaix) | 3 GEOL 4360<br>& GEOL 4361 | 6            |
| GEOL 4304   | 3 GEOL 4413   | 4                          |              |
| GEOL Advanced elective  | 3 GEOL Advanced elective  | 3                          |              |
| GEOL Advanced elective  | 3 Minor Course<br>(advanced)  | 3                          |              |
| Minor Course<br>(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).