# Bachelor of Science, Major in Geology

**Core Curriculum** ([catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1411</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 1412</td>
<td>and General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1420</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 1430</td>
<td>and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 3379</td>
<td>Statistical Methods In Practice</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1301</td>
<td>General Phy-Mechanics &amp; Heat</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 1101</td>
<td>and General Physics Laboratory I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 1302</td>
<td>and Gen Phy-Snd,Lght, Elec, &amp; Mag</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYS 1102</td>
<td>and General Physics Laboratory II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 1405</td>
<td>Geologic Hazards &amp; Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 3301</td>
<td>and Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3404</td>
<td>Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 3405</td>
<td>and Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4400</td>
<td>Stratigraphy And Sedimentation</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 4402</td>
<td>and Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 4360</td>
<td>and Field Geology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 4361</td>
<td>and Field Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4413</td>
<td>Methods In Applied Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>&amp; GEOL 4304</td>
<td>and Geochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major**

Advanced Geology electives | 9 |

**Minor (if required)**

Courses in accepted minor | 6 |

Courses in accepted minor | 6 |

Total Hours | 120-121 |

---

1. satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.
2. 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.

## First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1411</td>
<td>1</td>
<td>4 CHEM 1412</td>
<td>4 GEOL 3301</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>1</td>
<td>3 ENGL 1302</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 1403 or 1405</td>
<td>4</td>
<td>4 GEOL 1404</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1420</td>
<td>1</td>
<td>4 MATH 1430 or 3379</td>
<td>3-4</td>
</tr>
</tbody>
</table>

15 14-15 3
### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 3404</td>
<td>4</td>
<td>GEOL 3405</td>
<td>4</td>
</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
<td>Minor Course</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1301 &amp; PHYS 1101</td>
<td>4 &amp; 4</td>
<td>POLS 2305 &amp;</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 14**

### Third Year

<table>
<thead>
<tr>
<th>Component Area IV</th>
<th>Hours</th>
<th>Component Area V</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 4400</td>
<td>4</td>
<td>GEOL 4402</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1301</td>
<td>3</td>
<td>HIST 1302</td>
<td>3</td>
</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 13**

### Fourth Year

<table>
<thead>
<tr>
<th>Component Area VIII</th>
<th>Hours</th>
<th>Component Area IX</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 4304</td>
<td>3</td>
<td>GEOL 4413</td>
<td>4</td>
<td>GEOL 4360 &amp; GEOL 4361</td>
<td>6</td>
</tr>
<tr>
<td>GEOL Advanced elective</td>
<td>3</td>
<td>GEOL Advanced elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL Advanced elective</td>
<td>3</td>
<td>Minor Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 15**

**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).