**GEOLOGY: ENVIRONMENTAL GEOLOGY, BS**

### Degree Programs

**Requirements for Students Matriculating in or before Academic Year 2021-2022.** Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

**Minimum Overall Grade Point Average:** 2.00  
**Total Hours:** 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1114</td>
<td>Physical Geology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1224</td>
<td>Evolution of the Earth (LN)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 2464</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3014</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3034</td>
<td>Principles of Stratigraphy and Sedimentology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3503</td>
<td>Environmental Geology (N)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4403</td>
<td>Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4453</td>
<td>Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3546</td>
<td>Field Geology</td>
<td>6</td>
</tr>
<tr>
<td>ENVR 1113</td>
<td>Elements of Environmental Science (N)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4203</td>
<td>Fundamentals of Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper-Division General Education**  
6 hours outside major department  
(See note 2.c.)

| Hours Subtotal | 13 |

### Major Requirements

**Minimum grade of "C" in all Major Required courses.**

**Core Curriculum:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1114</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
</tr>
<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
</tr>
<tr>
<td>or ENGL 3323</td>
<td>Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

**Analytical & Quantitative Thought (A)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2144</td>
<td>Calculus I (A)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Humanities (H)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses designated (H)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Natural Sciences (N)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Must include one Laboratory Science (L) course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2014</td>
<td>University Physics I (LN)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Social & Behavioral Sciences (S)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course designated (S)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional General Education**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses designated (A), (H), (N), or (S)</td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

| Hours Subtotal | 40 |

**Diversity (D) & International Dimension (I)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>May be completed in any part of the degree plan.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least one Diversity (D) course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least one International Dimension (I) course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### College/Departmental Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Seminar</td>
<td>(Transfer students with 15 hours exempt)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Arts & Humanities**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>(See note 2.a.)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Natural & Mathematical Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I (LN)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
<td>5</td>
</tr>
</tbody>
</table>

| Hours Subtotal | 10 |

### Other Requirements

- See the College of Arts and Sciences Requirements.
- **Upper-Division Credit:** Total hours must include at least 40 hours in courses numbered 3000 or above.
- **Hours in One Department:** For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.

**College of Arts and Sciences Requirements**

1. **General Education Requirements**

   No more than two courses (or eight hours) from the major department (http://catalog.okstate.edu/college-arts-sciences-major-departments/) may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American
2. **A&S College/Departmental Requirements**
   
a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing), HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.

b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOG, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.

c. The required six hours of upper-division General Education may not include courses from the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

d. Non-Western Studies Requirement for B.A. and B.F.A.; One 3-hour course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3. **Foreign Language Proficiency**
   
a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.

b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year-level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.

c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4. **Exclusions**
   
a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum allowed from one department.

b. Courses with ATRL or LEIS prefixes and leisure activity courses may not be used for degree credit.

5. **Teacher Certification**
   
Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences advisor and the OSU Professional Education Unit in room 325 Willard.

### Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2027.

### Example Plan of Study

**Finish in Four Plan of Study**

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2144</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1114</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4300</td>
<td>Geology Colloquium</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Education courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2153</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1314</td>
<td>Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1224</td>
<td>Evolution of the Earth</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional State/OSU Requirements**

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2027.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>CHEM 1515</td>
<td>Chemistry II (LN)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>GEOL 2464</td>
<td>Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEOL 4300</td>
<td>Geology Colloquium</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ENVR 1113</td>
<td>Elements of Environmental Science (N)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>College and General Education courses</strong></td>
<td><strong>2</strong></td>
</tr>
<tr>
<td>Spring</td>
<td>GEOL 3503</td>
<td>Environmental Geology (N)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOL 1114</td>
<td>Introductory Biology (LN)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEOL 4300</td>
<td>Geology Colloquium</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Major, College, and Elective courses</strong></td>
<td><strong>7</strong></td>
</tr>
<tr>
<td>Junior</td>
<td>PHYS 2014</td>
<td>University Physics I (LN)</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>GEOL 3034</td>
<td>Principles of Stratigraphy and Sedimentology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHYS 2114</td>
<td>University Physics II (LN)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>GEDG 4203</td>
<td>Fundamentals of Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Major, College, and Elective courses</strong></td>
<td><strong>2</strong></td>
</tr>
<tr>
<td>Summer</td>
<td>GEOL 3546</td>
<td>Field Geology</td>
<td>6</td>
</tr>
<tr>
<td>Senior</td>
<td>GEOL 3014</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>GEOL 4403</td>
<td>Geochemistry (Every other year)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 120