# GEOLOGY: PETROLEUM 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>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</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>3</td>
</tr>
<tr>
<td>or ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

### General Education Requirements

#### English Composition
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)

- ENGL 1113 Composition I 3
- or ENGL 1313 Critical Analysis and Writing I 3
- ENGL 1213 Composition II 3
- or ENGL 1413 Critical Analysis and Writing II 3
- or ENGL 3323 Technical Writing 3

### American History & Government

- HIST 1103 Survey of American History 3
- or HIST 1483 American History to 1865 (H) 4
- or HIST 1493 American History Since 1865 (DH) 4
- POLS 1113 American Government 3

#### Analytical & Quantitative Thought (A)

- MATH 2144 Calculus I (A) 1 4

#### Humanities (H)

Courses designated (H) 6

#### Natural Sciences (N)

Must include one Laboratory Science (L) course

- BIOL 1114 Introductory Biology (LN) 1 4
- PHYS 2014 University Physics I (LN) 1 4

### Social & Behavioral Sciences (S)

Course designated (S) 3

### Additional General Education

Courses designated (A), (H), (N), or (S) 7

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

May be completed in any part of the degree plan.

At least one Diversity (D) course

At least one International Dimension (I) course

### Core Curriculum

<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 4023</td>
<td>Petroleum Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4103</td>
<td>Introduction to Geophysical Exploration</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 4403</td>
<td>Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEOL 4213</td>
<td>Plate Tectonics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4313</td>
<td>Introduction to Well Log Analysis</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>
</tbody>
</table>

### Related Curriculum

- FIN 4003 Introduction to Energy Business 3
- GEG 4203 Fundamentals of Geographic Information Systems 3
- MATH 2153 Calculus II (A) 3
- PHYS 2114 University Physics II (LN) 4

### Major Requirements

- Minimum grade of "C" in all Major Required courses.
- Core Curriculum:
  - GEOL 1114 Physical Geology (LN) 4
  - GEOL 1224 Evolution of the Earth (LN) 4
  - GEOL 2464 Rocks and Minerals 4
  - GEOL 3014 Structural Geology 4
  - GEOL 3034 Principles of Stratigraphy and Sedimentology 4
  - GEOL 4023 Petroleum Geology 3
  - GEOL 4103 Introduction to Geophysical Exploration 3
  - or GEOL 4403 Geochemistry 3
  - GEOL 4213 Plate Tectonics 3
  - GEOL 4313 Introduction to Well Log Analysis 3
  - GEOL 4453 Hydrogeology 3
  - GEOL 3546 Field Geology 6

### 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
Government, one required MATH or STAT course, and required foreign
language for B.A. degrees do not count against the two-course
maximum.

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), GEOL, 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 ATHL 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 and 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.