### GEOLOGY: SECONDARY TEACHER CERTIFICATION, BS

**Requirements for Students Matriculating in or before Academic Year 2017-2018.** Learn more about University Academic Regulation 3.1 ([http://catalog.okstate.edu/university-academic-regulations/#matriculation](http://catalog.okstate.edu/university-academic-regulations/#matriculation)).

**Minimum Overall Grade Point Average:** 2.50  
**Total Hours:** 120

<table>
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<tr>
<td>ENGL 1113</td>
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**American History & Government**

- HIST 1103 | Survey of American History                          | 3     |
- POLS 1113 | American Government                                  | 3     |

**Analytical & Quantitative Thought (A)**

- MATH 2144 | Calculus I (A)                                        | 1,2 4  |
- STAT 4013 | Statistical Methods I (A)                             | 1,2 3  |

**Humanities (H)**

- PHIL 3743 | Patterns in Science: Historical and Value Dimensions of Western Science (H) | 3     |
- PHIL 3933 | Creation and Evolution (H)                            | 3     |

**Natural Sciences (N)**

Must include one Laboratory Science (L) course

- PHYS 2014 | General Physics (LN)                                  | 1,2 4  |
- GEOL 1114 | Physical Geology (LN)                                  | 1,2 4  |
- BIOL 1114 | Introductory Biology (LN)                              | 1,2 4  |

**Social & Behavioral Sciences (S)**

Course designated (S)  

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<tr>
<td>SMED 1011</td>
<td>Inquiry Approaches to Teaching - Step 1</td>
<td>1</td>
</tr>
<tr>
<td>SMED 2011</td>
<td>Inquiry-Based Lesson Design-Step 2</td>
<td>1</td>
</tr>
<tr>
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<tr>
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<td>3</td>
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<tr>
<td>SMED 4723</td>
<td>Senior Seminar in Secondary Mathematics and Science Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3202</td>
<td>Educating Exceptional Learners (D)</td>
<td>2</td>
</tr>
<tr>
<td>CIED 4720</td>
<td>Internship in the Secondary Classroom</td>
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**College/Departmental Requirements**

**First Year Seminar**

- A&S 1111 | A&S First Year Seminar (transfer students with 15 hours exempt) | 1     |

**Arts & Humanities**

See note 2.a.

**Natural & Mathematical Sciences**

- CHEM 1314 | General Chemistry (LN)                                | 4     |
- CHEM 1515 | General Chemistry (LN)                                | 5     |

**Foreign Language**

See note 3

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<td>GEOG 3023</td>
<td>Geographical Environmental Science (N)</td>
<td>3</td>
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<tr>
<td>BIOL 3933</td>
<td>Research Methods (OSUTeach requirement)</td>
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**Total Hours:** 120

1. College and Departmental Requirements that may be used to meet Gen Ed Requirements.
2. Minimum GPA 2.50 and minimum grade of “C” or “P” for courses in Geology Core and those denoted with 2.
3. Full admission to Professional Education required.
Areas

Earth/Space Science

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<td>ASTR 1013</td>
<td>The Solar System (N)</td>
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<td>ASTR 1023</td>
<td>Stars, Galaxies, Universe (N)</td>
<td>3</td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td>GEOL 3073</td>
<td>Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOL 3103</td>
<td>Paleontology</td>
<td></td>
</tr>
<tr>
<td>GEOL 3503</td>
<td>Environmental Geology</td>
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<tr>
<td>GEOL 4213</td>
<td>Plate Tectonics</td>
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Physical Science

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<tr>
<td>CHEM 3015</td>
<td>The Chemistry of Organic Compounds</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2114</td>
<td>General Physics (LN)</td>
<td>4</td>
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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**: Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.

College of Arts and Sciences Requirements

1. General Education Requirements
   No more than two courses (or eight hours) from the major department may be used to meet General Education and College 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, BIOL, BIOL, BOT, CHEM, CS (except CS 4883 Social Issues in Computing), GEOG, MATH, MICR, 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 from:
3. Foreign Language Proficiency
   a. The foreign language requirement for the B.A. may be satisfied by 10 hours college credit in the same language, or equivalent proficiency (e.g., passing an advanced standing examination; completing a second-year or higher college-level course in the language, etc.).
   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 any of the options listed above for the B.A. utilizing elective hours.
   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 5 hours college credit in the same language with no grade below C (or pass an advanced standing examination equivalent to 5 hours of college credit).

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 adviser 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 2023.