Geology: Earth Science Teaching, BSLAS

for the degree of Bachelor of Science in Liberal Arts & Sciences Major in Geology (Sciences & Letters), Earth Science Teaching Concentration

department website: https://www.geology.illinois.edu/
dergraduate (https://www.geology.illinois.edu/undergraduate/)
department faculty: Geology Faculty (https://
www.geology.illinois.edu/people/)
advising: Geology advising (https://www.geology.illinois.edu/cms/
One.aspx?portalid=127672&pageld=258530)
overview of college admissions & requirements: Liberal Arts &
Sciences (http://catalog.illinois.edu/schools/las/academic-units/)
college website: https://las.illinois.edu/
email: geology@illinois.edu

The Sciences and Letters Curriculum in Geology (BSLAS), administered
by the Department of Geology, is designed for students who want
a more flexible course of study than is provided by the Specialized
Curriculum in Geology and Geophysics. It may be used by those wishing
to obtain a more liberal education and/or background in geology for use
in fields such as anthropology, business, mineral economics, regional
planning, journalism, law, sales, or library and information science. It is
not intended to prepare a student for graduate work in the geological
sciences unless the student selects additional courses in mathematics,
chemistry, and physics comparable to those required in the Specialized
Geology and Geophysics Curriculum. Students must choose from the
following: Geology, Earth and Environmental Sciences, or Earth Science
Teaching. The Earth Science Teaching Concentration is designed for
students preparing to teach earth science at the secondary school level.

Undergraduate Degree Programs in Geology

For the Degree of Bachelor of Science in Liberal Arts and Sciences
Students select one of the following in consultation with an adviser:

- Major in Geology (Sciences and Letters) (http://catalog.illinois.edu/
dergraduate/las/geology-bslas/)
- Major in Geology (Sciences and Letters), Earth and Environmental
  Sciences Concentration (http://catalog.illinois.edu/undergraduate/
las/geology-bslas/earth-environmental-sciences/)
- Major in Geology (Sciences and Letters), Earth Science Teaching
  Concentration (p. 1)

For the Degree of Bachelor of Science in Geology
Students select one of the following in consultation with an adviser:

- Major in Geology (Specialized Curriculum) (http://catalog.illinois.edu/
dergraduate/las/geology-bs/)
- Major in Geology (Specialized Curriculum), Environmental Geology
  Concentration (http://catalog.illinois.edu/undergraduate/las/geology-
  bs/environmental-geology/)
- Major in Geology (Specialized Curriculum), Geophysics Concentration
  (http://catalog.illinois.edu/undergraduate/las/geology-bs/
geophysics/)

This concentration fulfills state certification requirements to teach high
school (grades 9-12) Earth and Space Science through the AP/honors
level and biology, chemistry, environmental science and physics up to but
not including the AP/honors level.

Time to degree completion varies. Minimum time to completion is 8
semesters. Some students require 10 semesters. Transfer students may
need 10 total semesters combined to complete the program. Please see
the LAS section in the transfer handbook (https://admissions.illinois.edu/
Content/docs/Handbook_LAS.pdf) for more information.

In order to remain in good standing in this program and be recommended
for certification, candidates are required to maintain UIUC, cumulative,
content area, and professional education grade-point averages of 2.5 (A=
4.0). Candidates should consult their advisor or the Council on Teacher
Education for the list of courses used to compute these grade-point
averages.

Departmental Distinction: Students majoring in Geology can earn
distinction, high distinction, and highest distinction upon graduation. The
requirements for these awards are:

- Distinction: A minimum cumulative grade point average of 3.3, and must
  present evidence of exemplary teaching
- High Distinction: A minimum cumulative grade point average of 3.5, and
  must present evidence of exemplary teaching
- Highest Distinction: A minimum cumulative grade point average of 3.7,
  and must present evidence of exemplary teaching

General education: Students must complete the Campus General
Education (https://courses.illinois.edu/gened/DEFAULT/DEFAULT/)
requirements including the campus general education language
requirement.

Minimum required major and supporting course work: Normally
equates to 55-59 hours in the concentration and 39 hours for the
Teacher Education Minor in Secondary School Teaching. Twelve
hours of 300- and 400-level in the major must be taken on this
campus.

Minimum hours required for graduation: 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 107</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 208</td>
<td>History of the Earth System</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 333</td>
<td>Earth Materials and the Env</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>or MATH 234</td>
<td>Calculus for Business I</td>
<td></td>
</tr>
</tbody>
</table>

Additional Required Coursework

Teacher Education Minor in Secondary School Teaching
(http://catalog.illinois.edu/undergraduate/education/
secondary/)

Select one group of courses: 5-6
**Geology: Earth Science Teaching, BSLAS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 100 &amp; ASTR 131 &amp; ASTR 132</td>
<td>Introduction to Astronomy and The Solar System Lab and Stars and Galaxies Lab</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>ASTR 121 &amp; ASTR 122</td>
<td>Solar System and Worlds Beyond and Stars and Galaxies</td>
</tr>
<tr>
<td>ATMS 100</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>IB 100</td>
<td>Biology in Today's World</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one group of courses: 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 103</td>
<td>General Chemistry I and General Chemistry Lab I</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>CHEM 202 &amp; CHEM 203</td>
<td>Accelerated Chemistry I and Accelerated Chemistry Lab I</td>
</tr>
<tr>
<td>GEOL 117</td>
<td>The Oceans</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 143</td>
<td>History of Life</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced-hour course work in Geology 8

Select one group of courses: 10-12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101 &amp; PHYS 102</td>
<td>College Physics: Mech &amp; Heat and College Physics: E&amp;M &amp; Modern</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>PHYS 211 &amp; PHYS 212 &amp; PHYS 213 &amp; PHYS 214</td>
<td>University Physics: Mechanics and University Physics: Elec &amp; Mag and Univ Physics: Thermal Physics and Univ Physics: Quantum Physics</td>
</tr>
</tbody>
</table>

**Requirements for the Teacher Education in Secondary School Teaching Minor**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 201</td>
<td>Identity and Difference in Education $^1$</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 202</td>
<td>Social Justice, School and Society $^1$</td>
<td>3</td>
</tr>
<tr>
<td>CI 401</td>
<td>Introductory Teaching in a Diverse Society</td>
<td>3</td>
</tr>
<tr>
<td>CI 403</td>
<td>Teaching a Diverse High School Student Population</td>
<td>3</td>
</tr>
<tr>
<td>CI 404</td>
<td>Teaching and Assessing Secondary School Students</td>
<td>3</td>
</tr>
<tr>
<td>CI 473</td>
<td>Disciplinary Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 201</td>
<td>Educational Psychology $^{1,2}$</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 485</td>
<td>Assessing Student Performance</td>
<td>3</td>
</tr>
<tr>
<td>SPED 405</td>
<td>General Educator's Role in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDPR 442</td>
<td>Educational Practice in Secondary Education</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Hours 39-40

---

1. EDUC 201, EDUC 202 and EPSY 201 can be completed at any time during the degree and are not pre-requisites to apply for the minor.
2. PSYC 100 is a pre-requisite for EPSY 201.

*Information listed in this catalog is current as of 02/2022*