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/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/undergraduate/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/undergraduate/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)

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

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.

Code       Title                                      Hours

Foundation Courses

The following courses must be completed or in progress when students apply to the Secondary Education minor.

GEOL 107   Physical Geology 1                      4
GEOL 208   History of the Earth System             4
GEOL 333   Earth Materials and the Env 2           4
MATH 220   Calculus                                4-5
or MATH 22 Calculus I                             
or MATH 23 Calculus for Business I

Additional Required Coursework

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

Select one group of courses: 5-6
ASTR 100  Introduction to Astronomy
& ASTR 131 and The Solar System Lab
& ASTR 132 and Stars and Galaxies Lab

or

ASTR 121  Solar System and Worlds Beyond
& ASTR 122 and Stars and Galaxies

ATMS 100  Introduction to Meteorology  3

IB 100  Biology in Today’s World  3

Select one group of courses:  4

CHEM 102  General Chemistry I
& CHEM 103 and General Chemistry Lab I

or

CHEM 202  Accelerated Chemistry I
& CHEM 203 and Accelerated Chemistry Lab I

GEOL 117  The Oceans  3

GEOL 143  History of Life  3

Advanced-hour course work in Geology  8

Select one group of courses:  10-12

PHYS 101  College Physics: Mech & Heat
& PHYS 102 and College Physics: E&M & Modern

or

PHYS 211  University Physics: Mechanics
& PHYS 212 and University Physics: Elec & Mag
& PHYS 213 and Univ Physics: Thermal Physics
& PHYS 214 and Univ Physics: Quantum Physics

Requirements for the Teacher Education in Secondary School Teaching Minor

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<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>
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<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>
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<tr>
<td>CI 473</td>
<td>Disciplinary Literacy</td>
<td>3</td>
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<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>
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<tr>
<td>SPED 405</td>
<td>General Educator’s Role in Special Education</td>
<td>3</td>
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<tr>
<td>EDPR 442</td>
<td>Educational Practice in Secondary Education</td>
<td>12</td>
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<tr>
<td>Total Hours</td>
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<td>39-40</td>
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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.