EARTH SCIENCE TEACHING CONCENTRATION

https://www.geology.illinois.edu/undergraduate

For the Degree of Bachelor of Science in Liberal Arts and Sciences

Major in Geology (Sciences and Letters), Earth Science Teaching Concentration

E-mail: geology@illinois.edu

Minimum required course work normally equates to 55-59 hours in the concentration and 39 hours for the Teacher Education Minor in Secondary School Teaching.

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

Twelve hours of 300- and 400-level courses in the major must be taken on this campus.

Minimum hours required for graduation: 120 hours

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.

Students in this concentration must complete the Teacher Education Minor in Secondary School Teaching (39 hours). See the College of Education section for requirements of the minor (http://catalog.illinois.edu/undergraduate/education/secondary).

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: The student must have a grade-point average of at least 3.5 in all geology courses as well as all courses in the Teacher Education Minor and a GPA of at least 3.0 in all other science and mathematics courses and must present evidence of exemplary teaching.

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

Additional Required Coursework
Teacher Education Minor in Secondary School Teaching (http://catalog.illinois.edu/undergraduate/education/secondary) 39

Select one group of courses:
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:
CHEM 102 General Chemistry I & CHEM 106 and General Chemistry Lab I 4

or

CHEM 202 Accelerated Chemistry I & CHEM 206 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:
PHYS 101 College Physics: Mech & Heat & PHYS 102 and College Physics: E&M & Modern 10-12

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

1 Students who decide to follow the curriculum after first taking GEOL 100 or GEOL 103 should enroll in GEOL 208. GEOL 100 or GEOL 103 will be accepted as a substitute for GEOL 107, but students should be aware that these courses are not intended for science majors.

2 Students can substitute GEOL 333 with GEOL 432.