

# 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

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**department page:**

**department website:** <https://www.geology.illinois.edu/undergraduate>

**department faculty:** [Geology Faculty \(https://www.geology.illinois.edu/directory/faculty\)](https://www.geology.illinois.edu/directory/faculty)

**overview of college admissions & requirements:** [Liberal Arts & Sciences \(http://catalog.illinois.edu/las\)](http://catalog.illinois.edu/las)

**college website:** <https://las.illinois.edu/>

**email:** [geology@illinois.edu](mailto:geology@illinois.edu)

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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](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.**

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**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
<b>Foundation Courses</b>		
The following courses must be completed or in progress when students apply to the Secondary Education minor.		
GEOL 107	Physical Geology <sup>1</sup>	4
GEOL 208	History of the Earth System	4
GEOL 333	Earth Materials and the Env <sup>2</sup>	4
MATH 220	Calculus	4-5
	or MATH 22Calculus I	
	or MATH 23Calculus for Business I	
<b>Additional Required Coursework</b>		
Teacher Education Minor in Secondary School Teaching ( <a href="http://catalog.illinois.edu/undergraduate/education/secondary">http://catalog.illinois.edu/undergraduate/education/secondary</a> )		39
Select one group of courses:		5-6
ASTR 100	Introduction to Astronomy & ASTR 131and The Solar System Lab & ASTR 132and Stars and Galaxies Lab	
or		
ASTR 121	Solar System and Worlds Beyond & ASTR 122and 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 10;and General Chemistry Lab I	
or		
CHEM 202	Accelerated Chemistry I & CHEM 20;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 102and College Physics: E&M & Modern		
or		
PHYS 211 University Physics: Mechanics & PHYS 212and University Physics: Elec & Mag & PHYS 213and Univ Physics: Thermal Physics & PHYS 214and Univ Physics: Quantum Physics		

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

Code	Title	Hours
<b>Professional Education Required Courses</b>		
EDUC 201	Identity and Difference in Education <sup>1</sup>	3
EDUC 202	Social Justice, School & Society <sup>1</sup>	3
CI 401	Introductory Teaching in a Diverse Society	3
CI 403	Teaching a Diverse High School Student Population	3
CI 404	Teaching and Assessing Secondary School Students	3
CI 473	Disciplinary Literacy	3
EPSY 201	Educational Psychology <sup>1,2</sup>	3
EPSY 485	Assessing Student Performance	3
SPED 405	General Educator's Role in Special Education	3
EDPR 442	Educational Practice in Secondary Education	12
Total Hours		39-40

<sup>1</sup> 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.

<sup>2</sup> PSYC 100 is a pre-requisite for EPSY 201.