

GEOLOGY, BS

for the degree of Bachelor of Science Major in Geology

department page:

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

department faculty: **Geology Faculty** (<https://www.geology.illinois.edu/directory/faculty>)

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

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

email: geology@illinois.edu

Specialized Curriculum

Graduation requires a grade point average of at least 2.0 overall and a 2.0 average in all required science and technical courses (geology, physics, mathematics, chemistry, and technical requirements listed below). The Department of Geology will supply upon request a Guide for Geology Undergraduates giving more information about the curriculum.

Departmental distinction: Students who maintain a grade point average of at least 3.5 in all geology courses and 3.0 in all other science and mathematics courses and who complete an acceptable senior thesis, including at least 4 hours credit in GEOL 492 or GEOL 493, are recommended for graduation with distinction.

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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 hours required for graduation: 126 hours.

Code	Title	Hours
Chemistry: Select one group of courses: 8-9		
CHEM 102	General Chemistry I	
CHEM 103	General Chemistry Lab I	
CHEM 104	General Chemistry II	
CHEM 105	General Chemistry Lab II	
or		
CHEM 202	Accelerated Chemistry I	
CHEM 203	Accelerated Chemistry Lab I	
CHEM 204	Accelerated Chemistry II	
CHEM 205	Accelerated Chemistry Lab II	

45 hours of Geology Courses: ¹

GEOL 107	Physical Geology ²	4
GEOL 208	History of the Earth System	4
GEOL 143	History of Life	3
GEOL 411	Structural Geol and Tectonics	4
GEOL 417	Geol Field Methods, Western US ³	6
GEOL 432	Mineralogy and Mineral Optics	4
GEOL 436	Petrology and Petrography	4
GEOL 440	Sedimentology and Stratigraphy	4
Select one of the following:		3-4
GEOL 450 Probing the Earth's Interior or GEOL 452 Introduction to Geophysics		
GEOL 460	Geochemistry	3
6 additional hours 300- or 400-level geology		6
Mathematics		13-15
MATH 220 Calculus or MATH 221 Calculus I		
MATH 231 Calculus II		
MATH 225 Introductory Matrix Theory or MATH 415 Applied Linear Algebra		
MATH 241 Calculus III		
Physics. Select one group of courses:		8-10
PHYS 211 University Physics: Mechanics		
PHYS 212 University Physics: Elec & Mag		
or		
PHYS 101 College Physics: Mech & Heat		
PHYS 102 College Physics: E&M & Modern		
Additional Technical Requirements		3
Select at least 3 hours from the following:		
IB 103 Introduction to Plant Biology		
IB 104 Animal Biology		
CS 101 Intro Computing: Engrg & Sci		
CS 125 Intro to Computer Science		
CPSC 440 Applied Statistical Methods I		
STAT 400 Statistics and Probability I		
MATH 285 Intro Differential Equations		
MATH 441 Differential Equations		
PHYS 213 Univ Physics: Thermal Physics		
PHYS 214 Univ Physics: Quantum Physics		

¹ Students transferring into the geology concentration from another science or engineering program may substitute up to 8 hours of 300- or 400-level science or engineering credits for 8 hours of 300- or 400-level geology courses with departmental approval.

² 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.

³ GEOL 417 is a 6-hour summer field course taught off campus.