

GEOLOGY: ENVIRONMENTAL GEOLOGY, BS

for the degree of Bachelor of Science Major in Geology, Environmental Geology Concentration

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

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

24 hours of Geology Courses

GEOL 107	Physical Geology ¹	4
GEOL 208	History of the Earth System	4
GEOL 380	Environmental Geology	4
GEOL 401	Geomorphology	4
GEOL 451	Env and Exploration Geophysics	4
	or GEOL 45: Introduction to Geophysics	
GEOL 470	Introduction to Hydrogeology	4

Mathematics 11-12

MATH 220 Calculus
or MATH 221 Calculus I

MATH 231 Calculus II

MATH 241 Calculus III

Physics 8-10

PHYS 211 University Physics: Mechanics
& PHYS 212 and University Physics: Elec & Mag
or

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

Statistics- Select one of the following: 4

CPSC 440 Applied Statistical Methods I

STAT 400 Statistics and Probability I

Additional Technical Requirements 24

Select from the following courses. At least 9 hours must be geology courses and at least 9 hours must be non-geology courses.

CEE 330 Environmental Engineering

CHEM 232 Elementary Organic Chemistry I

CS 101 Intro Computing: Engrg & Sci

CS 125 Intro to Computer Science

ENVS 431 Environ Toxicology & Health

GEOG 477 Introduction to Remote Sensing

GEOL 411 Structural Geol and Tectonics

GEOL 417 Geol Field Methods, Western US ²

GEOL 432 Mineralogy and Mineral Optics

GEOL 436 Petrology and Petrography

GEOL 440 Sedimentology and Stratigraphy

GEOL 460 Geochemistry

MATH 225 Introductory Matrix Theory

MATH 415 Applied Linear Algebra

MATH 285 Intro Differential Equations

MATH 441 Differential Equations

MCB 100 Introductory Microbiology

MCB 101 Intro Microbiology Laboratory

PHYS 213 Univ Physics: Thermal Physics

PHYS 214 Univ Physics: Quantum Physics

STAT 420 Methods of Applied Statistics

TAM 210 Introduction to Statics

TAM 211 Statics

2 *Geology: Environmental Geology, BS*

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