GEOLOGY, BS
for the degree of Bachelor of Science Major in Geology

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department page: https://www.geology.illinois.edu/
derpartment website: https://www.geology.illinois.edu/undergraduate
derpartment 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 requirements including the campus general education language requirement.

Minimum hours required for graduation: 126 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOL</td>
<td>Physical Geology</td>
<td>4</td>
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<tr>
<td>GEOL</td>
<td>History of the Earth System</td>
<td>4</td>
</tr>
<tr>
<td>GEOL</td>
<td>History of Life</td>
<td>3</td>
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<tr>
<td>GEOL</td>
<td>Structural Geol and Tectonics</td>
<td>4</td>
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<tr>
<td>GEOL</td>
<td>Geol Field Methods, Western US</td>
<td>6</td>
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<tr>
<td>GEOL</td>
<td>Mineralogy and Mineral Optics</td>
<td>4</td>
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<tr>
<td>GEOL</td>
<td>Petrology and Petrography</td>
<td>4</td>
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<tr>
<td>GEOL</td>
<td>Sedimentology and Stratigraphy</td>
<td>4</td>
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Select one of the following: 3-4
- GEOL 450 Probing the Earth's Interior
- GEOL 452 Introduction to Geophysics

GEOL 460 Geochimistry 3
6 additional hours 300- or 400-level geology 6

Mathematics 13-15
- MATH 220 Calculus
- MATH 221 Calculus I
- MATH 231 Calculus II
- MATH 225 Introductory Matrix Theory
- 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.

Information listed in this catalog is current as of 07/2019