GEOLOGY, BS

for the degree of Bachelor of Science Major in Geology

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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Minimum hours required for graduation: 126 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
<td>1</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry Lab II</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
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<td></td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Accelerated Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 203</td>
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<tr>
<td>CHEM 204</td>
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<tr>
<td>CHEM 205</td>
<td>Accelerated Chemistry Lab II</td>
<td>2</td>
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</table>

45 hours of Geology Courses: ¹

GEOL 107 | Physical Geology | 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 | 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 |
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.

Information listed in this catalog is current as of 05/2019