**GEOLOGY: ENVIRONMENTAL GEOLOGY, BS**

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

**Departmental Information:**
- **Department Website:** [https://www.geology.illinois.edu/](https://www.geology.illinois.edu/)
- **Departmental 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/](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](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**
---|---|---
CHEM 102 | General Chemistry I | 8-9
CHEM 103 | General Chemistry Lab I | 
CHEM 104 | General Chemistry II | 
CHEM 105 | General Chemistry Lab II | 
CHEM 202 | Accelerated Chemistry I | 
CHEM 203 | Accelerated Chemistry Lab I | 
CHEM 204 | Accelerated Chemistry II | 
CHEM 205 | Accelerated Chemistry Lab II | 
GEOL 107 | Physical Geology | 4
GEOL 208 | History of the Earth System | 4
GEOL 380 | Environmental Geology | 4
GEOL 401 | Geomorphology | 
GEOL 451 | Env and Exploration Geophysics | 4
or GEOL 452 | Introduction to Geophysics | 
GEOL 470 | Introduction to Hydrogeology | 4

**Mathematics**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
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<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
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<tr>
<td>MATH 231</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 241</td>
<td>Calculus III</td>
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**Physics**

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<tbody>
<tr>
<td>PHYS 211</td>
<td>University Physics: Mechanics</td>
</tr>
<tr>
<td>&amp; PHYS 212</td>
<td>University Physics: Elec &amp; Mag</td>
</tr>
<tr>
<td>or PHYS 101</td>
<td>College Physics: Mech &amp; Heat</td>
</tr>
<tr>
<td>&amp; PHYS 102</td>
<td>College Physics: E&amp;M &amp; Modern</td>
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**Statistics: Select one of the following:**

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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CPSC 440</td>
<td>Applied Statistical Methods I</td>
</tr>
<tr>
<td>STAT 400</td>
<td>Statistics and Probability I</td>
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**Additional Technical Requirements**

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

**Code** | **Title** |
---|---|
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 |
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 |

Information listed in this catalog is current as of 04/2019
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.

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