GEOSTATICS: EARTH & ENVIRONMENTAL SCIENCES, BSLAS

For the degree of Bachelor of Science in Liberal Arts & Sciences Major in Geology (Sciences & Letters), Earth & Environmental Sciences Concentration

Department website: https://www.geology.illinois.edu/
undergraduate https://www.geology.illinois.edu/undergraduate/
Department faculty: Geology Faculty (https://
www.geology.illinois.edu/people/)
Advising: Geology advising (https://www.geology.illinois.edu/cms/
One.aspx?portalId=127672&pageId=258530)
Overview of college admissions & requirements: Liberal Arts &
Sciences (http://catalog.illinois.edu/schools/las/academic-units/)
College website: https://las.illinois.edu/
Email: geology@illinois.edu

The Sciences and Letters Curriculum in Geology (BSLAS), administered
by the Department of Geology, is designed for students who want
a more flexible course of study than is provided by the Specialized
Curriculum in Geology and Geophysics. It may be used by those wishing
to obtain a more liberal education and/or background in geology for use
in fields such as anthropology, business, mineral economics, regional
planning, journalism, law, sales, or library and information science. It is
not intended to prepare a student for graduate work in the geological
sciences unless the student selects additional courses in mathematics,
chemistry, and physics comparable to those required in the Specialized
Geology and Geophysics Curriculum. Students must choose from the
following: Geology, Earth and Environmental Sciences, or Earth Science
Teaching. The Earth Science Teaching Concentration is designed for
students preparing to teach earth science at the secondary school level.

Undergraduate Degree Programs in Geology

For the Degree of Bachelor of Science in Liberal Arts and Sciences
Students select one of the following in consultation with an adviser:

- Major in Geology (Sciences and Letters) (http://catalog.illinois.edu/
  undergraduate/las/geology-bslas/)
- Major in Geology (Sciences and Letters), Earth and Environmental
  Sciences Concentration (p. 1)
- Major in Geology (Sciences and Letters), Earth Science Teaching
  Concentration (http://catalog.illinois.edu/undergraduate/las/geology-
  bslas/earth-science-teaching/)

For the Degree of Bachelor of Science in Geology
Students select one of the following in consultation with an adviser:

- Major in Geology (Specialized Curriculum) (http://catalog.illinois.edu/
  undergraduate/las/geology-bs/)
- Major in Geology (Specialized Curriculum), Environmental Geology
  Concentration (http://catalog.illinois.edu/undergraduate/las/geology-
  bs/environmental-geology/)
- Major in Geology (Specialized Curriculum), Geophysics Concentration
  (http://catalog.illinois.edu/undergraduate/las/geology-bs/
  geophysics/)

Minimum hours required for graduation: 120 hours.

Core requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 107</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 208</td>
<td>History of the Earth System</td>
<td>4</td>
</tr>
<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>
</tr>
</tbody>
</table>

Select one of the following MATH courses: 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Calculus for Business I</td>
<td></td>
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</tbody>
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Courses beyond the core requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMS 140</td>
<td>Climate and Global Change</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 118</td>
<td>Natural Disasters</td>
<td></td>
</tr>
<tr>
<td>GEOL 333</td>
<td>Earth Materials and the Env</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 432</td>
<td>Mineralogy and Mineral Optics</td>
<td></td>
</tr>
<tr>
<td>GEOL 380</td>
<td>Environmental Geology</td>
<td>4</td>
</tr>
</tbody>
</table>

Ten to twelve hours of additional advanced geology courses 10-12

Six to eight hours Environmental Studies electives. (see
Geology advisor for list of approved courses) 6-8

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 An introductory Statistics course, e.g., STAT 100, SOC 280, ECON 202,
or a second semester of Calculus is recommended.