Geological Sciences
College of Arts & Sciences

202 Patterson Office Tower Contact: Dr. Rebecca Freeman - asrecruiting@uky.edu

Geological Sciences encompass a variety of types of studies of the Earth, including composition, structure, prehistoric life, internal and surfical processes, and geological history. These studies have applications in the discovery and use of mineral resources, fuels, and water; in protection of the environment; and in planning for natural limitations (earthquakes, landslides, resources, etc.) on societal development.

**Total Hours Required for Degree: 134**

### Freshman Year Credit Hours: 31

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>15</th>
<th>SPRING SEMESTER</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>EES 220</td>
<td>EES 220 - PRINCIPLES OF PHYSICAL GEOLOGY</td>
<td>4</td>
<td>CHE 107</td>
</tr>
<tr>
<td>CHE 105</td>
<td>CHE 105 - GENERAL COLLEGE CHEMISTRY I</td>
<td>4</td>
<td>CHE 113</td>
</tr>
<tr>
<td>CHE 111</td>
<td>CHE 111 - GENERAL CHEMISTRY I LABORATORY</td>
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<td>PHY 211</td>
</tr>
<tr>
<td>UK Core - Comp. &amp; Comm. I</td>
<td>3</td>
<td>UK Core - Comp. &amp; Comm. II</td>
<td>3</td>
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<tr>
<td>UK Core - Arts and Creativity</td>
<td>3</td>
<td>UK Core - Humanities</td>
<td>3</td>
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### Sophomore Year Credit Hours: 32

<table>
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<th>FALL SEMESTER</th>
<th>16</th>
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<th>16</th>
</tr>
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<tbody>
<tr>
<td>EES 230</td>
<td>EES 230 - FUNDAMENTALS OF GEOLOGY I</td>
<td>3</td>
<td>EES 235</td>
</tr>
<tr>
<td>PHY 213</td>
<td>PHY 213 - GENERAL PHYSICS</td>
<td>5</td>
<td>EES 295</td>
</tr>
<tr>
<td>Geological Sci Premajor Math Courses</td>
<td>5</td>
<td>EES 360</td>
<td>EES 360 - MINERALOGY</td>
</tr>
<tr>
<td>A&amp;S Humanities (100+ level)</td>
<td>3</td>
<td>Geological Sci Premajor Math Courses</td>
<td>5</td>
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<tr>
<td></td>
<td></td>
<td>UK Core - Social Sciences</td>
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## Junior Year Credit Hours: 29

### FALL SEMESTER
- **EES 450G | EES 450G - SEDIMENTARY GEOLOGY**
- **EES 461 | EES 461 - IGNEOUS AND METAMORPHIC PETROLOGY**
- **Foreign Language 101**
- **UK Core - Statistical Inferential Reason**

### SPRING SEMESTER
- **EES 420G | EES 420G - STRUCTURAL GEOLOGY**
- **Foreign Language 102**
- **UK Core - Community, Culture and Citizen**
- **UK Core - Global Dynamics**

## Junior Year Credit Hours: 21

### SUMMER SEMESTER
- **EES 323 | EES 323 - FIELD WORK IN REGIONAL GEOLOGY**

### FALL SEMESTER
- **Foreign Language 201**
- **EES/Related Field Elective (300+)**
- **EES Elective (400+)**
- **A&S Social Sciences (100+ level)**
- **A&S Approved Elective (100+ level)**

## Senior Year Credit Hours: 21

### SPRING SEMESTER
- **EES 490 | EES 490 - EARTH DYNAMICS**
- **Foreign Language 202**
- **EES/Related Field Elective (300+)**
- **EES Elective (400+)**
- **A&S Approved Elective (100+ level)**

### SUMMER SEMESTER
- **EES 323 | EES 323 - FIELD WORK IN REGIONAL GEOLOGY**

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Current UK students: Please login to [http://myUK.uky.edu](http://myUK.uky.edu) to access your personalized major map and degree audit via the Graduation Planning System (GPS). This major map is the curriculum requirements for completion of the degree program only and is not a personalized audit based on your completed coursework. This major map does not reflect entrance requirements for selective majors. Please consult with the college to learn more about admission to this major.