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.

### Freshman Year

**FALL SEMESTER**
- EES 220 - PRINCIPLES OF PHYSICAL GEOLOGY - 4
- CHE 105 - GENERAL COLLEGE CHEMISTRY I - 4
- CHE 111 - LABORATORY TO ACCOMPANY GENERAL CHEMISTRY I - 1
- UK Core - Comp. & Comm. I - 3
- UK Core - Arts and Creativity - 3

**TOTAL HOURS: 15**

**SPRING SEMESTER**
- CHE 107 - GENERAL COLLEGE CHEMISTRY II - 3
- CHE 113 - GENERAL CHEMISTRY II LABORATORY - 2
- PHY 211 - GENERAL PHYSICS - 5
- UK Core - Comp. & Comm. II - 3
- UK Core - Humanities - 3

**TOTAL HOURS: 16**

Total Freshman Hours: 31

### Sophomore Year

**FALL SEMESTER**
- EES 230 - FUNDAMENTALS OF GEOLOGY I - 3
- PHY 213 - GENERAL PHYSICS - 5
- Geological Sci Premajor Math Courses - 5
- A&S Humanities (100+ level) - 3

**TOTAL HOURS: 16**

**SPRING SEMESTER**
- EES 235 - FUNDAMENTALS OF GEOLOGY II - 3
- EES 295 - GEOSCIENCE ORIENTATION - 1
- EES 360 - MINERALOGY - 4
- Geological Sci Premajor Math Courses - 5
- UK Core - Social Sciences - 3

**TOTAL HOURS: 16**

Total Sophomore Hours: 32

### Junior Year

**FALL SEMESTER**
- EES 450G - SEDIMENTARY GEOLOGY - 4
- EES 461 - IGNEOUS AND METAMORPHIC PETROLOGY - 4
- Foreign Language 101 - 4
- UK Core - Statistical Inferential Reason - 3

**TOTAL HOURS: 15**

**SPRING SEMESTER**
- EES 420G - STRUCTURAL GEOLOGY - 4
- Foreign Language 102 - 4
- UK Core - Community, Culture and Citizen - 3
- UK Core - Global Dynamics - 3

**TOTAL HOURS: 14**

Total Junior Hours: 35

### Junior Year

**SUMMER SEMESTER**
- EES 323 - FIELD WORK IN REGIONAL GEOLOGY - 6

**FALL SEMESTER**
- Foreign Language 201 - 3
| TOTAL HOURS: 06 | EES/Related Field Elective (300+) - 3  
|               | EES Elective (400+) - 3  
|               | A&S Social Sciences (100+ level) - 3  
|               | A&S Approved Elective (100+ level) - 3  

Total Senior Hours: 36

### Senior Year

#### SPRING SEMESTER
- EES 490 - EARTH DYNAMICS - 3  
- Foreign Language 202 - 3  
- EES/Related Field Elective (300+) - 3  
- EES Elective (400+) - 3  
- A&S Approved Elective (100+ level) - 3  

TOTAL HOURS: 15

#### SUMMER SEMESTER
- EES 323 - FIELD WORK IN REGIONAL GEOLOGY - 6  

TOTAL HOURS: 06

Total Senior Hours: 36

**Total Minimum hours Required for Degree: 120 hours**

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