# DEGREE PLANNING GUIDE

## Geology BA

Important Note: This is a sample degree plan, faculty advisor will create plan specific to admittance year (even or odd) and program start year (first or second year).

<table>
<thead>
<tr>
<th>First year (&lt;28 credits)</th>
<th>Sophomore (28-59 credits)</th>
<th>Junior (60-91 credits)</th>
<th>Senior (92+ credits)</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>GEOL 111, GEOL 114, or GEOL 115, or GEOL 162</td>
<td>Program Elective Course J-Term</td>
<td>Program Elective Course Allied Elective Course</td>
<td>GEOL 340 (offered Fall Even Year)</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>GEOL 211 (offered spring only) Quantitative Analysis Course</td>
<td>Program Elective Course Allied Elective Course</td>
<td>GEOL 320 (offered Spring Even Year)</td>
<td>GEOL 360 (offered Spring Odd Year) GEOL 410 (offered Spring Odd Year)</td>
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### Program Core Courses (28 credits)
- GEOL 111 Intro to Physical Geology or GEOL 114
- GEOL 114 the Science of Natural Disasters or GEOL 115
- Environmental Geology or GEOL 162 The Earth’s Record of Climate
- GEOL 211 Earth Materials or GEOL 310 Environmental Geochemistry
- GEOL 260 Geology in the Field
- GEOL 320 Sedimentology and Stratigraphy
- GEOL 340 Lithosphere I (Petrology)
- GEOL 360 Lithosphere II (Structural Geology)
- GEOL 410 Hydrogeology

### Quantitative Analysis (4 Credits)
- CISC 130 Programming and Problem Solving
- STAT 220 Statistics (Excel or R-based lab) ^
- MATH 109 or MATH 113 Calculus

### Program Electives (12 credits; 8 credits must be 200-level or higher)
- GEOL 130 Earth History
- GEOL 161 Medical Geology
- GEOL 162 Earth’s Record of Climate*
- GEOL 211 Earth Materials *^  
- GEOL 220 Oceanography
- GEOL 252 Geomorphology ^
- GEOL 310 Environmental Geochemistry*^  
- GEOL 430 Advanced Earth History
- GEOL 460 Advanced Field Methods
- GEOL 461 Medical Geology (cannot take 161)
- GEOL 462 Earth’s Record of Climate (cannot take 162)
- GEOL 491 Research
- BIOL 471 Evolution
- One Course may come from the following list:
  - ESCI 310 Environmental Problem Solving
  - GEOG 223 Remote Sensing
  - GEOG 321 Geographic Information Systems ^

*If not chosen for Program Core Course

### Allied Courses (8 credits)
- No two courses from same program:
  - BIOL 102 Conservation Biology
  - BIOL 209 Biology of Sustainability
  - CHEM 101 Environmental Chemistry
  - CHEM 111 General Chemistry ^  
  - CISC 130 Programming and Problem Solving (if not taken as Quantitative Analysis)
  - ECON 370 Environmental and Natural Resources Economics
  - ENGR 123 Energy and the Environment
  - ENVR 212 Society and Sustainability, ENVR 301 Environmental Ethics, OR ENVR 351 Environmental Policy
  - PHYS 101 Physics for Liberal Arts
  - PHYS 104 Astronomy
  - PHYS 109 Physics for Life Sciences I
  - PHYS 211 Classical Physics I
  - STAT 320 Statistics II ^

^Strongly Recommended for Professional Geologist (PG) state certification.