DEGREE PLANNING GUIDE: 2016-17

GEOLOGY – B.S.

<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>Semester 1</strong></td>
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<tr>
<td>GEOL 111 or 115</td>
<td>GEOL 252 (elective option)</td>
<td>GEOL 340</td>
<td>GEOL 462 or 491</td>
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<tr>
<td>MATH 108 or MATH 113</td>
<td>CHEM 111</td>
<td>GEOL 310 (elective option)</td>
<td>GEOL 252 (elective option if not already taken)</td>
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<td>STAT 220</td>
<td>PHYS 111</td>
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<td><strong>J-Term 1</strong></td>
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<td>GEOL 260</td>
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<td><strong>Semester 2</strong></td>
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<tr>
<td>GEOL 100-level (if not already taken)</td>
<td>GEOL 320</td>
<td>GEOL 211, 220, or GEOL 410 (elective option)</td>
<td>GEOL 320 (if not already taken)</td>
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<td>GEOL 211</td>
<td>CHEM 112</td>
<td>MATH 114 (if not already taken)</td>
<td>GEOL 211 or 220 (elective option if not already taken)</td>
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<td>MATH 109 or MATH 114</td>
<td>MATH 114 (if not already taken)</td>
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Requirements for Degree

Program Core Courses

One of:
- GEOL 111 Introductory Physical Geology
- GEOL 114 Science of Natural Disasters
- GEOL 115 Environmental Geology
- GEOL 130 Earth History
- GEOL 162 The Earth’s Record of Climate

Plus:
- GEOL 211 Earth Materials or GEOL 310 Environmental Geochemistry
- GEOL 260 Regional Geology and Field Methods
- GEOL 320 Sedimentology and Stratigraphy
- GEOL 340 Fundamentals of the Lithosphere I
- GEOL 360 Fundamentals of the Lithosphere II

Plus 16 credits from the following (and 4 credits must be at 300-level or higher, and 4 credits must be at the 400-level)
- GEOL 130 Earth History (if not chosen above)
- GEOL 162 The Earth’s Record of Climate (if not chosen above)
- GEOL 211 Earth Materials (if not chosen above)
- GEOL 220 Oceanography
- GEOL 252 Earth Surface Processes/Geomorphology
- GEOL 310 Environmental Geochemistry (if not chosen above)
- GEOL 410 Hydrogeology
- GEOL 460 Advanced Field Methods
- GEOL 461 Medical Geology
- GEOL 482 The Earth’s Record of Climate (unless receiving credit for GEOL 162)
- GEOL 491 Research

Allied Requirements

MATH 113 Calculus I or MATH 108 and 109 Calculus with Review I and II
- MATH 114 Calculus II
- CHEM 111 and 112 General Chemistry I and II
- PHYS 111 and 112 Intro to Classical Physics I and II
- STAT 220 Statistics I or MATH 303 Statistics for the Applied Sciences

Special Notes

*GEOL 310, 320, 340, 360 and several elective offerings are offered every other year. Students planning a geology degree will want to consult with faculty advisor.

Students wishing to pursue careers in paleontology, geobiology, or geomicrobiology may be able to take BIOL 207 and BIOL 208 as a substitute for CHEM/PHYS sequences above with permission of chair.