

## DEGREE PLANNING GUIDE: 2016-17

### GEOLOGY – B.S.

First year (<28 credits)	Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
<b>Semester 1</b> GEOL 111 or 115 MATH 108 or MATH 113	<b>Semester 1</b> GEOL 252 (elective option) CHEM 111 STAT 220	<b>Semester 1</b> GEOL 340 GEOL 310 (elective option) PHYS 111	<b>Semester 1</b> GEOL 462 or 491 (elective option if GEOL 410 not taken) GEOL 252 (elective option if not already taken)
<b>J-Term 1</b> GEOL 260	<b>J-Term 2</b> GEOL 260 (if not already taken)		
<b>Semester 2</b> GEOL 100-level (if not already taken) GEOL 211 MATH 109 or MATH 114	<b>Semester 2</b> GEOL 320 CHEM 112 MATH 114 (if not already taken)	<b>Semester 2</b> GEOL 360 GEOL 211, 220, or GEOL 410 (elective option) PHYS 112	<b>Semester 2</b> GEOL 320 (if not already taken) GEOL 211 or 220 (elective option if not already taken)

#### 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 462 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.

