

**Undergraduate Program, Geophysical Engineering
Elective Credit List**

Updated 08/02/2018

Required Coursework in Geology

Course #	Course Name	Credits Required?
GEGN101	Earth Systems	4.0 YES
GEGN205	Advanced Physical Geology Lab	1.0 YES
GEGN204	Geologic Principles & Processes	2.0 or GEGN203
GEGN203	Engineering Terrain Analysis	2.0 or GEGN204
	Total Credits Required	7.0

Pre-Approved Geology Electives*:

Course #	Course Name	Credits
GEGN342	Engineering Geomorphology	3.0
GEO315	Sedimentology and Stratigraphy	3.0
GEO314	Stratigraphy	4.0
GEO309	Structural Geology and Tectonics	4.0

* Students may propose using a course from the Department of Geology & Geological Engineering outside of the above four courses, toward the 3.0 credit Geology Elective. Request must be submitted to the Department no later than the semester immediately preceding the term during which the student plans to take the course.

Advanced Geophysical Electives*

Course #	Course Name	Credits Offered
GPGN411	Gravity & Magnetic Methods	3
GPGN419	Well Logging	3
GPGN420	Electrical & EM Methods	3
GPGN455	Earthquake Seismology	3
GPGN458	Seismic Interpretation	3
GPGN461	Seismic Data Processing	4
GPGN470	Remote Sensing	3
GPGN474	Hydrogeophysics	3

* Students may also take graduate-level GPGN courses to satisfy the advanced elective credit requirement.