

B.S. in Geology Program

Approved February, 2015

The Bachelor of Science in Geology is designed for those who intend to become professional geologists and/or those who plan to attend a graduate school in geosciences. The program includes courses normally expected of graduate school applicants, including a geology field course (summer) and courses in related sciences and mathematics. This degree program prepares students for the examination for the professional geologist license. Students must earn a letter grade of C or better in all geology and allied courses. Additionally, all prerequisite courses must be passed with a grade of C or better before progressing to the next level of geology courses.

I. Geology core courses	Cr. Hr.	USP Taught	
A. One of the following:			
GEOL 1005 Earth History OR	4	PN	Spring
GEOL 1100 Physical Geology OR	4	PN	Fall, Spring
GEOL 1200 Historical Geology OR	4	PN	Fall
GEOL 1500 Water, Dirt & Earth's Environment	4	PN	Fall
AND			
Each of the following:			
GEOL 2000 Geochemical Cycles & Earth System	4		Fall
GEOL 2010 Mineralogy	3		Fall
GEOL 2020 Petrology	2		Spring
GEOL 2100 Stratigraphy and sedimentation	4		Spring
GEOL 3005 Principles of Geophysics	4		Fall
or GEOL 2005 Introduction to Geophysics			
GEOL 4610 Structural geology and tectonics	4		Fall
GEOL 4717 Field course in geology (to be taken in 1 of the last 2 summers on campus)	6		Summer
GEOL 4820 Capstone	3	C3	Spring

II. Additional 18 credits hours in Geology courses at 2000 level and above.

III. Allied Math and Sciences (20 credits)

CHEM 1020 or 1050 General Chemistry I	4	PN
CHEM 1030 or 1060 General Chemistry II	4	PN
MATH 2200 Calculus I	4	Q
MATH 2205 Calculus II OR	4	Q
MATH 2250 Elementary Linear Algebra OR	4	
GEOL 4525 Environmental Data Analysis	4	
PHYS 1110 or 1210 General or Engineering Physics	4	PN

Note: This degree program represents a minimum proficiency. Students are strongly advised to elect additional courses in geology.