

Bachelor of Science in Geology -- 120 Credits

Professional Geology
JGEOLOGY-BS / JPROGEO-SP (RG 9661)
 Effective August 2024

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 6813)

Foundational Courses		CR	Satisfied/Term
Engcmp 0005	Composition I	3	
Engcmp 0006	Composition II	3	
CommRc 0052	Public Speaking	3	
Basic Algebra or Placement Test			
Math 0001	Algebra 1	3	
Quantitative Reasoning (QR) - 1 Course			
<i>Note - a student cannot test out of their QR requirement.</i>			
		3	

WORLDS OF KNOWLEDGE (RG 6825)

Aesthetic and Creative Expression (RQ 3148)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
Chem	0111	Gen Chem 1	3	

FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.			
	CR	Satisfied/Term	

Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Satisfied/Term
Chem	0112	Gen. Chem 2	3	

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.

- >The minimum number of courses taken in the Worlds must be 10.
- >The Follow-Up courses may repeat a subject previously taken in a World.
- >A student cannot use a major required Subject course in one of the Worlds.
- >For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.
- >Students cannot use a course to count both in their QR requirement and one of the Worlds.
- >Students can choose QR and Worlds of Knowledge courses from published course lists.

MAJOR REQUIREMENTS (RG 9661)

Required Geology Courses (RQ 4935)		CR	Satisfied/Term
Geo 0100	The Physical Earth	3	
Geo 0105	The Physical Earth Lab	1	
Geo 0300	Geodynamics	4	
Geo 0900	Mineralogy	4	
Geo 1000	Structural Geology	4	
Geo 1350	Geol Field Methods	4	
Requirement Satisfied		20	

Required Math Course (RQ 3573)		CR	Satisfied/Term
Math 0221	Analytic Geom & Calc 1	4	
Requirement Satisfied		4	

Required Geography Courses (RQ 4938)		CR	Satisfied/Term
Geo 0420	Cartography	3	
Geo 1150	GIS	3	
Requirement Satisfied		6	

Required Chemistry Courses (RQ 3571)		CR	Satisfied/Term
Chem 0111	General Chemistry 1	3	
Chem 0112	General Chemistry 2	3	
Chem 0113	General Chemistry 1 Lab	1	
Chem 0114	General Chemistry 2 Lab	1	
Requirement Satisfied		8	

Real World Experience Courses (RQ 4939)		CR	Satisfied/Term
Geo 1305	Senior Capstone	4	
Geo 1400	Internship	4	
Requirement Satisfied		8	

Required Professional Geology (RQ 4940)		CR	Satisfied/Term
Geo 0220	Fossil Fuels		
Or Geo 0930	Geochemistry	3	
Geo 1020	Geophysics	4	
Geo 1250	Sediment. & Stratigraphy	4	
Geo 1260	Ig & Met Petrology	4	
Math 0231	Analytic Geom. & Calc 2	4	
Phys 0140	Intro to Phys 1		
Or Phys 0150	Phys 1	4	
Phys 0141	Exp Phys 1 Lab		
Or Phys 0151	Phys 1 Lab	1	
Geo 0920	Geomorphology		
Or Geo 1100	Geology of Soils		
Or Geo 1210	Hydrogeology	4	
Requirement Satisfied		28	

MGPA (RQ 4941)
 Major 50% (RQ 4942)

Updated 03/30/26

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the proposed major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.