

Minor in Geological Sciences

Employment projections from the U.S. Bureau of Labor Statistics (BLS) indicate an overall 4.9% increase in geoscience jobs between 2019 and 2029, from 460,242 jobs in 2019 to 482,726 jobs in 2029. For comparison, the projected growth of the U.S. workforce over the same timeframe is expected to be 3.7%. Growth rates for individual geoscience occupations range between 0% and 8.4% for all but geoscience engineering managers (-1%).

Marketable Skills

Students will develop:

- Communication: Reach mutual understanding through effective exchange of information, ideas, and feelings
- Critical thinking: Analyze and evaluate issues in order to solve problems and develop informed opinions
- Problem-solving: Find solutions to difficult or complex issues
- Research: Be able to search, investigate and critically analyze information in response to a specific research question
- Teamwork: Participate as an effective, efficient member of a group in order to meet a common goal
- Writing: Communicate using text in a clear and concise manner

Additionally, students will learn about 3-D spatial thinking, the ability to interpret geological maps, mapping skills, sample collection, and organization skills.

Degree Plan

Code	Title	Hours
Introduction/Principles:		
Select one of the following:		3-4
GEOL 1313 & GEOL 1103	Intro to Physical Geology and Lab for GEOL 1313	
GEOL 1211 & GEOL 1111	Principles of Earth Sciences and Principles of Earth Sci - Lab	
Select one of the following:		3-4
GEOL 1314 & GEOL 1104	Intro to Historical Geol and Lab for GEOL 1314	
GEOL 1212 & GEOL 1112	Principles of Earth Science and Laboratory for Geology 1212	
Other Requirement:		
Select one of the following:		3
GEOL 2309 & GEOL 2109	Mineralogy & Petrology and Mineralogy & Petrology Lab	
GEOL 3312 & GEOL 3112	Geoscience Processes and Geoscience Processes Lab	
Upper-Division Electives:		
Select additional upper-division hours to have a total of eighteen hours:		7-9
GEOL 3215 & GEOL 3115	Igneous/Metamorphic Petrology and Igneous/Metamorphic Petr. Lab	
GEOL 3312 & GEOL 3112	Geoscience Processes and Geoscience Processes Lab	
GEOL 3323 & GEOL 3123	Structural Geology and Structural Geology Lab	
GEOL 3326 & GEOL 3126	Sedimentology & Stratigraphy and Lab for Sedim & Stratigraphy	
GEOL 4166	Directed Study, Geology	
GEOL 4266	Directed Study, Geology	
GEOL 4308	Paleoclimatology	
GEOL 4315	Topics in Geological Sciences	
GEOL 4316	Geochemistry	
GEOL 4335	Soil Properties & Genesis	
GEOL 4366	Directed Study, Geology	

GEOL 4373	Grndwater Contam and Reclam	
GEOL 4383	General Hydrogeology	
GEOL 4384	Nuclear Fuel Cycle	
GEOL 4389	Research in Geological Science	
GEOL 4390	Intrnshp Geological Sciences	
GEOL 4399	Senior's Thesis	
GEOP 4167	Directed Study, Geophysics	
GEOP 4267	Directed Study, Geophysics	
GEOP 4306	Meteorology	
GEOP 4367	Directed Study, Geophysics	
Total Hours		16-20