GEOLOGY MAJOR, BACHELOR OF ARTS (BA)

The Bachelor of Arts serves students interested in geology-oriented fields which do not require the full range of professional training. Employment opportunities include such varied possibilities as park naturalist, urban and regional planner or geological technician.

Note: two years of a single high school foreign language or one year of a single college level foreign language is required.

Note: GEOL grade requirements are ≥2.50 cumulative average and ≥2.0 in required supporting and geology classes.

Note: enrollment in GEOL 120 and GEOL 121 requires a major declaration in Geology.

Required Courses		
GEOL 120	PHYSICAL GEOLOGY - THE SOLID EARTH	5
GEOL 121	PHYSICAL GEOLOGY - SURFICIAL PROCESSES	5
GEOL 122	HISTORICAL GEOLOGY	5
GEOL 311	EARTH MATERIALS	4
GEOL 312	CRYSTALLOGRAPHY AND OPTICAL MINERALOGY	4
GEOL 313	IGNEOUS AND METAMORPHIC PETROLOGY	4
GEOL 490	SENIOR CAPSTONE: GEOLOGY FIELD CAMP	4-10
or GEOL 490A	SENIOR CAPSTONE: WATER AND THE WEST, WATER RESOURCE ENGINEERING IN ARID LANDS	
or GEOL 491	SENIOR THESIS	
Required Supporting Courses		
CHEM 151	GENERAL CHEMISTRY	5
CHEM 152	GENERAL CHEMISTRY	5
Choose one from the following		5
BIOL 171	BIOLOGY I	
GEOG 328	GEOGRAPHIC INFO SYSTEMS I	
GEOG 410	GEOMORPHOLOGY	
MATH 161	CALCULUS I	
MATH 380	ELEMENTARY PROBABILITY AND STATISTICS	
PHYS 131 & PHYS 161	INTRODUCTORY PHYSICS I and MECHANICS LABORATORY	
Electives		20
A GEOL field course may be selected in consultation with department advisor.		
GEOL 320	ENVIRONMENTAL GEOLOGY	
GEOL 360	GEOLOGIC HAZARDS	
GEOL 408	INVERTEBRATE PALEONTOLOGY	
GEOL 411	SEDIMENTOLOGY AND STRATIGRAPHY	
GEOL 430	STRUCTURAL GEOLOGY I	
GEOL 431	STRUCTURAL GEOLOGY II	
GEOL 470	HYDROGEOLOGY	
Total Credits		66-72

For information on General Education, see Undergraduate Degree (http://catalog.ewu.edu/archives/2016-2017/undergraduate-degree) .

Student Learning Outcomes—students will

- demonstrate effective skills in oral and written communication in order to be successful in the field of geology;
- demonstrate an understanding of basic principles of the history and development of the earth through time;
- demonstrate the proper use of computer, laboratory and field equipment used in geology.