

# GEOLOGY (GEOL)

---

<b>GEOL 101 ~PHYSICAL GEOLOGY</b>	<b>3 Credit Hours</b>
The physical, chemical and biological processes that shape the Earth will be studied in light of the concept of global plate tectonics and the interaction of Earth's subsystem's (the lithosphere, biosphere, hydrosphere, and atmosphere). (3 lecture)	
<b>Corequisite(s):</b> GEOL 102	
<b>GEOL 102 ~PHYSICAL GEOLOGY LAB</b>	<b>1 Credit Hour</b>
The laboratory study of rocks and minerals, interpretation of topographic and geologic maps, earth structures, earthquakes, economic resources, and local geology with field trips.	
<b>Corequisite(s):</b> GEOL 101	
<b>GEOL 103 ~HISTORICAL GEOLOGY</b>	<b>3 Credit Hours</b>
An introduction to the study of the origin of the Earth and its evolutionary development through time are presented. The concepts of geologic time, organic evolution, and plate tectonics are fundamental themes used to unravel Earth history. In this context, present and past interactions of Earth's subsystems (the lithosphere, biosphere, hydrosphere, and atmosphere) are studied. (3 lecture)	
<b>Corequisite(s):</b> GEOL 104	
<b>GEOL 104 ~HISTORICAL GEOLOGY LAB</b>	<b>1 Credit Hour</b>
The laboratory study of sedimentary rocks, fossils, correlation or rock units, interpretation of geologic maps, and local geology with field trips. (1 lab)	
<b>Corequisite(s):</b> GEOL 103	
<b>GEOL 105 ENVIRONMENTAL GEOLOGY</b>	<b>4 Credit Hours</b>
Introduction to the study of the Earth's processes and interconnections between humans and Earth. The physical, chemical and biological processes that shape Earth will be studied, in conjunction with environmental issues. The study of Earth's subsystems (lithosphere, biosphere, hydrosphere and atmosphere) and the human impact on the subsystems. (3 lecture, 2 lab)	
<b>Corequisite(s):</b> GEOL 105L	
<b>GEOL 105L ENVIRONMENTAL GEOLOGY LAB</b>	<b>0 Credit Hours</b>
Laboratory work will emphasize minerals and rocks, interpretation of maps and geologic processes.	
<b>Corequisite(s):</b> GEOL 105	
<b>GEOL 297 SPECIAL TOPICS</b> (1-3 lecture)	<b>1-3 Credit Hours</b>
<b>GEOL 299 INDEPENDENT STUDY</b> (1-4 lecture)	<b>1-4 Credit Hours</b>
<b>GEOL 307 PALEOBIOLOGY OF DINOSAURS</b>	<b>3 Credit Hours</b>
This course is designed as an elective course for those interested in exploring the fascinating world of dinosaur paleontology. This course will explore the evolution, history and paleobiology of dinosaurs from their appearance in the geologic record to their extinction. The course will also cover the relationship of dinosaurs to ancestral vertebrates of the Paleozoic era, and to the birds and mammals, two groups which emerged in the early Mesozoic era. Hypotheses dealing with the extinction (perhaps catastrophic) of the dinosaurs and other groups at the end of the Mesozoic era will also be studied. (3 lecture)	
<b>Prerequisite(s):</b> (ENGL 112 or ENGL 102) and (ENGL 101 or ENGL 111)	
<b>GEOL 310 FIELD STUDIES IN GEOLOGY</b>	<b>1-3 Credit Hours</b>
This is a field studies course that will have two primary focuses: 1) the study of the geologic history of a region of the U.S. and 2) the study and practice of geologic and paleontological data collection (including fossils, rocks, and minerals) and the application of this data to paleontological, stratigraphic, and sedimentologic interpretations of paleoenvironments. (Variable credit, 1-3 credit hours and repeatable to a maximum of 6 credit hours) (1-3 lecture)	
<b>Prerequisite(s):</b> (GEOL 101 and GEOL 102) or PSCI 112	
<b>GEOL 393 COOPERATIVE WORK EXPERIENCE</b>	<b>1-12 Credit Hours</b>
<b>GEOL 397 SPECIAL TOPICS</b> (1-3 lecture)	<b>1-3 Credit Hours</b>
<b>GEOL 399 INDEPENDENT STUDY</b> (1-3 lecture)	<b>1-3 Credit Hours</b>