

GEOLOGY (GLY)

GLY 510 Big Bend Field Excursion	2 Credit hours	
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park.		
Grade Mode: Normal Grading Mode		
GLY 518 Invertebrate Paleontology	4 Credit hours	
Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201)		
Grade Mode: Normal Grading Mode		
GLY 521 Petrology	4 Credit hours	
Identification and classification of igneous, sedimentary and metamorphic rocks, their origin and occurrence; their geologic and economic. 2 lec-4 lab.		
Grade Mode: Normal Grading Mode		
GLY 523 Sedimentary Petrography	4 Credit hours	
Megascopic and microscopic identification and a depositional and post-depositional interpretation of the sedimentary rocks. 3 lec-2 lab.		
Grade Mode: Normal Grading Mode		
GLY 525 Geochemistry	4 Credit hours	
Introduction to the principles of geochemistry. The application of chemistry to the study of the earth and to geologic problems. Laboratory work includes analysis of rocks, soils, and waters.		
Grade Mode: Normal Grading Mode		
GLY 527 Fossil Fuels	4 Credit hours	
The origin and occurrence of petroleum, coal, and natural gas; the relationships of accumulations to depositional environments and structural history; methods used in exploration, evaluation and recovery. 3 lec-2 lab.		
Pre-req: GLY 200.		
Grade Mode: Normal Grading Mode		
GLY 530 Computer Methods Geology	4 Credit hours	
The computer will be used for compilation, reduction, data analysis and modelling from a wide range of geological problems. Existing and student developed programs will be used.		
Grade Mode: Normal Grading Mode		
GLY 551 Principles Geomorphology	4 Credit hours	
Identification and analysis of the earth's surficial features in terms of stratigraphy, structure, processes, tectonics, and time. 3 lec - 2 lab.		
Grade Mode: Normal Grading Mode		
GLY 555 Hydrogeology	3 Credit hours	
The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes. The uses, needs and problems associated with water resources.		
Grade Mode: Normal Grading Mode		
GLY 555L Hydrogeology Laboratory	1 Credit hour	
Laboratory and field experiments studying principles and concepts of hydrology. 2 lab.		
Grade Mode: Normal Grading Mode		
GLY 556 Environmental Geology	4 Credit hours	
Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geological media.		
Grade Mode: Normal Grading Mode		
GLY 557 Engineering Geology	4 Credit hours	
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater.		
Grade Mode: Normal Grading Mode		
GLY 580 Special Topics	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 581 Special Topics	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 582 Special Topics	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 583 Special Topics	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 585 Independent Study	1-4 Credit hours	
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GLY 586 Independent Study	1-4 Credit hours	
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GLY 587 Independent Study	1-4 Credit hours	
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GLY 588 Independent Study	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 640 Physical Aspects Geology	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 641 Biological Aspect Geology	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 642 Chemical Aspects Geology	1-4 Credit hours	
Grade Mode: Normal Grading Mode		
GLY 681 Thesis	1-6 Credit hours	
Grade Mode: Normal Grading Mode		