

GEOLOGICAL SKILLS	Introduced	Practiced	Reinforced
use classification charts to id samples			
interpret landforms & processes from air photos			
understand the relation between form & process			
delineate drainage basins & define surface water flow from maps			
prepare & interpret facies maps to interpret environment	Physical Geology, Field Methods, Honors Physical Geology	Historical Geology	
3-d visualization			
compare & evaluate different classification systems			
phase diagrams			
cross-sections	GLS 100, Historical, Honors	Structural Geology	
stratigraphic correlation	Honors Historical	Sed & Strat	Field Camp
facies analysis	Honors Historical, GLS 100	Sed & Strat	
sedimentary structure id	Historical Geology		
relate sedimentary structures to depositional environments			
measure thickness of rock units			

measuring strike & dip & trends	GLS 100, Historical, Field Methods	Structural, Field School 1	Field School 2
plotting attitude & other directional data on a topo map	Field School 1	Field School 2	
plotting contacts on map	Map Interpretation	Structural Geology, Field School 1	Field School 2
local igneous rocks	GLS 100	Petrology	
EQUIPMENT USAGE			
brunton compass	Honors Physical Geology, Field Methods	Field School 1	Field School 2
silva compass		Coastal Geology	
petrographic microscope	GLS100	Mineralogy,	Petrology
surveying equipment	Field Methods	Surveying	Applied Geophysics
hand level		Coastal Geology	Field School
GPS	Field Methods	Field School,	
FIELD SKILLS			
field notes	Mineralogy	Field School	Petrology
sketches	Mineralogy	Field School, Petrology	Field School
igneous rock id	GLS 100, Historical	Petrology	

sedimentary rock id	GLS 100, GLS 100, Historical	Sed & Strat	Petrology
metamorphic rock id	GLS 100, Historical	Petrology	Field School
geologic history	GLS 100, Historical Geology	Paleontology	Field School
interpret a Harker diagram		Mineralogy	Petrology
prepare a phase diagram	Honors Physical Geology, Mineralogy, Geochemistry	Mineralogy	Petrology
interpret a phase diagram	Honors Physical Geology	Mineralogy	Petrology