

COURSE #	SLO		FA 2015	Spr 2016	FA 2016	Spr 2017	FA 2017	Spr 2018	FA 2018	Spr 2019	FA 2019	Spr 2020	FA 2020	Spr 2021
GEOG 121	1	Develop observational skills related to “reading the landscape” (e.g., relating changes in solar declination to seasonal variation; relating changes in longitude to differences in time keeping; relating real-time weather observations to synoptic-scale weather maps; developing and using morphologic classification systems (e.g., mafic vs. felsic igneous rock classification; the biologic taxonomy; etc.); development of hypotheses derived from observation-based rationales; relating stream offsets, sagponds, and pressure ridges, as found on topographic maps, to lateral-fault location, and direction and rate of displacement; etc.).			X									
	2	Develop the ability to recognize and name the individual components of the physical environment, and of interrelationships between and spatial patterns produced by these individual components (e.g., recognition of dominant plant species within Coastal Sage Scrub biome; recognition of species variation by habitat (e.g., north vs. south facing slopes) within a biome; recognition of typical San Diego weather features and patterns (e.g., inversions, sea-breezes, downslope adiabatics, synoptic-scale Highs vs. synoptic-scale Lows vs. mesoscale Lows); etc.).			X									
	3	Develop technical skills and experience utilizing the tools of Physical Geography to collect data (e.g., spherical grid systems; compasses and clinometers; GPS receivers; infrared guns; psychrometers and psychrometric tables; wading rods, pygmy meters, tag lines, shovels, and velocity-discharge ratings; etc.).			X									

X

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	3	Students should be able to explain the step-by-step causes and outcomes of thermal circulation within the Atmospheric System, including across various spatial and temporal scales (e.g., <i>Sea Breezes vs. Monsoonal Wind Systems vs. Hadley Cells; production of Warm Core Lows such as stationary Desert Thermal Lows vs. traveling Tropical Cyclones (e.g., Hurricanes); etc.</i>).						X						
	4	Students should be able to discuss the unique characteristics and importance of water especially in the vapor phase within the Atmospheric System (e.g., <i>high capacity to store heat energy per change in temperature; high latent heat associated with phase changes; radiative properties relative to infrared radiation and greenhouse warming; energy source behind convective weather systems; basic measures of humidity (e.g., specific humidity vs. saturation specific humidity vs. relative humidity); systematic distribution of the mechanisms by which precipitation is produced; effect on atmospheric instability; etc.</i>).						X						
GEOG 150	1	**CROSS-LISTED: SEE GEOL 150**												
GEOG 170	1	Students should be able to describe and explain California's location relative to the tectonic system, and thus why it's a) so seismically active and b) topographically diverse.							X					
	2	Students should be able to describe and explain California's location relative to the general circulation of the atmosphere, summer vs. winter, and all that implies							X					

