

CEL GIS Certificate Equivalencies

Course Number	Course Name	Required CEUs	Equivalent
Core Courses:		8.0 CEUs	
Geog 9003	Introduction to GIS	1.6 CEU	Geog 603 OR Combination of USP 492 + 493
Geog 9022	Data Acquisition for GIS	1.6 CEU	Geog 603
Geog 9015	Database Management for GIS	1.6 CEU	
Geog 9009	Cartographic Design for GIS	1.6 CEU	Geog 606
Geog 9004	Managing a GIS Project	1.6 CEU	
Electives:		9.6 CEUs	
Geog 9008	Raster GIS and Analysis	1.6CEU	Geog 621
Geog 9010	Using GIS for GPS	1.6CEU	
Geog 9011	Remote Sensing in GIS, Part I	1.6CEU	Geog 610
Geog 9019	Remote Sensing in GIS, Part II	1.6CEU	Geog 611
Geog 9013	Spatial Analysis and Modeling	1.6CEU	Geog 620
Geog 9023	GIS and Remote Sensing for Coastal & Marine Sci	1.6CEU	Geog 629
Geog 9029	Processing GIS Data with Visual Tools	1.6CEU	
Geog 9021	Introduction to Programming ArcGIS	1.6CEU	
Geog 9030	Building a Geodatabase	1.6CEU	Geog 620
Geog 9020	Scientific Visualization in GIS	1.6CEU	Geog 621
Geog 9024	Watershed GIS	1.6CEU	Geog 642
Geog 9026	GIS in Crime Analysis	1.6CEU	
Geog 9027	Spatial Analysis of Public Health Data	1.6CEU	
Geog 9099	Further Exploration of ArcGIS	1.6CEU	
Geog 9031	Introduction to R	1.6CEU	
Geog 9032	Ecological Applications of GIS	1.6CEU	
Geog 9033	GIS for Sustainable Planning and Urban Design	1.6CEU	
Geog 9034	Developing Rich Internet Mapping Applications	1.6CEU	