

Geography Curriculum Mapping

I - Students are introduced to the outcome D- Students have the opportunity to further develop the outcome M - Students can demonstrate mastery at the exit level		Intended Student Learning Outcomes			
		SLO1*	SLO2*	SLO3*	SLO4*
Course ID	Course Title	<i>Knowledge</i>	<i>Research/ Critical Thinking</i>	<i>Skills</i>	<i>Prepare future</i>
GEO 100	World Geography (4)	I	I	I	I
GEO 101	Physical Geography (4)	I	I	I	I
GEO 102	Cultural Geography (4)	I	I	I	I
GEO 103	Image and Map Interpretation (4)	I	I	I	I
GEO 240/A	Geographic Information Systems (3/1)	I	I	I,D	I
GEO 303	Climatology (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 305	Advanced Physical Geography I	I,D,M	I,D,M	I,D,M	I,D,M
GEO 307	Advanced Physical Geography II	I,D,M	I,D,M	I,D,M	I,D,M
GEO 308	Biogeography (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 309	Field Geography (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO310	Cultural	I,D,M	I,D,M	I,D,M	I,D,M
GEO 312	Geography	I,D,M	I,D,M	I,D,M	I,D,M
GEO 313	Legal and Political Geography (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 315	Urban Geography (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 320/A	Rural Geography	I,D,M	I,D,M	I,D,M	I,D,M
GEO330/A	Environmental Geography	I,D,M	I,D,M	I,D,M	I,D,M
GEO335	Historical Geography	I,D,M	I,D,M	I,D,M	I,D,M
GEO 345	Tourism in a Globalizing World (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 350	Geography U.S. and Canada (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 351	Geography of California (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 352	Geography of Latin America (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 357	Geography of Asia (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 358	Geography of Africa (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 359	Europe: Land and People (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 405/A	Geo-Demographics using GIS (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 409	Advanced Field Techniques (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 410	Photographic Remote Sensing (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 413	Environmental Law (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 420	Digital Image Processing (4)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 421/L	Computer Cartography (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 422/A	Multimedia Mapping (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO430	Geography of Landscape Preservation	I,D,M	I,D,M	I,D,M	I,D,M
GEO 435	Parks and Protected Areas.	I,D,M	I,D,M	I,D,M	I,D,M
GEO 442	Advanced GIS I (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 443	Advanced GIS II (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 444	Ethnic Geography of the US	I,D,M	I,D,M	I,D,M	I,D,M
GEO 445/A	Environmental Modeling with GIS (3/1)	I,D,M	I,D,M	I,D,M	I,D,M
GEO 451	Internship in GIS (4)				D,M
GEO 461	Senior Project				D,M

* GEOGRAPHY STUDENT LEARNING OUTCOME (SLO)

SLO 1 Students will be able to use written text, speech, maps, graphics, equations, and other devices to identify and describe spatial characteristics, patterns and processes at a variety of scales in physical, human, and social economic environment, including themes in atmosphere, biosphere, lithosphere, hydrosphere, population, culture, economics, settlements, and policies. (*Knowledge*)

SLO 2 Students will develop capabilities and technical skills to apply scientific research methods (in both natural and social sciences) to observe, collect, and process geographic data; to perform analysis based on the knowledge, theories and principles in geography; and to draw quantitative and qualitative conclusions. (*Critical and analytical thinking, and technical research skills*) Specifically, they should be able to demonstrate the following:

SLO 2a The capability to identify and define research problems in physical and/or human geography fields.

SLO 2b The capability to observe, collect, and process geographic data with state of the art technology, including GIS, Remote Sensing, GPS, field data collection instruments, as well as obtaining data from document and literature sources.

SLO 2c The capability to perform data analysis based on critical thinking skills and use of technical and quantitative methods, including GIS, Remote Sensing, modeling software, and statistical methods.

SLO 2d The capability to draw conclusions and/or suggest solutions or mitigation strategies based on their analysis results.

SLO 3 Students will be able to communicate their understanding and analysis results by making maps, writing research papers and technical reports, giving oral presentations, and developing multimedia presentations. (*Communication skills*) Specifically, they should be able to demonstrate the following:

SLO 3a Understand the structure and convention of research papers and technical reports in the field and competency in writing.

SLO 3b Understand the principles of cartography and the convention of map making. Students choosing the GIS option should be able to design, develop, and present maps using different medias, including paper and web based maps.

SLO 4 Students will demonstrate readiness to pursue employment in either environmental or GIS related industries, employment in other related fields, or graduate program in geography or a cognate discipline. (*Job skills and advanced study*)

SLO 4a Students with an option in GIS should demonstrate via internship, course projects, and portfolios their competency in GIS software application, data collection, data processing data management, and mapping skills. These are marketable skills for entry and intermediate level GIS and related jobs.

SLO 4b Students with an option in Environmental Geography should demonstrate via course projects, field assignments, internships, and portfolios their competency in collecting and analyzing field data for environmental analysis and effectively presenting field data and analysis results with various forms. These are marketable skills for entry and intermediate level jobs in environmental geography.

SLO 4c Those students who plan to pursue advanced degrees should demonstrate via the senior colloquium and the portfolio requirements that they have met all the requirements to enter geography or related programs in graduate studies or in teacher preparation, including courses preparations and taking required tests.