

GEOGRAPHY

GEG-1

Physical Geography (C-ID:GEOG 110)

3.00 units
UC, CSU

Prerequisite: None.

Description: The interacting physical processes of air, water, land, and life that impact Earth's surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture. (Letter grade only)

GEG-1H

Honors Physical Geography (C-ID:GEOG 110)

3.00 units
UC, CSU

Prerequisite: None.

Limitation on enrollment: Enrollment in the Honors Program.

Description: The interacting physical processes of air, water, land, and life that impact Earth's surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. The honors course offers an enriched experience for accelerated students by limited class size, seminar format, student generated and led discussions and projects, the application of higher level thinking, reading, and writing skills - analysis, synthesis, and evaluation. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture. (Letter grade only)

GEG-1L

Physical Geography Laboratory (C-ID:GEOG 111)

1.00 unit
UC, CSU

Prerequisite: None.

Corequisite: GEG-1DE or GEG-1H.

Description: Practical application of scientific principles through geographically based in-class exercises using a variety of tools, such as maps, photos, and data in various forms. 54 hours laboratory. (Letter grade only)

GEG-2

Human Geography (C-ID:GEOG 120)

3.00 units
UC, CSU

Prerequisite: None.

Description: The geographic analysis of the human imprint on the planet. A study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions emphasizing demography, languages, religions, urbanization, landscape modification, political units and nationalism, economic systems and development. Emphasis is given to interrelationships between human activities and the biophysical environment. 54 hours lecture. (Letter grade only)

GEG-3

World Regional Geog (C-ID:GEOG 125)

3.00 units
UC, CSU

Prerequisite: None.

Description: A study of major world regions, emphasizing current characteristics and issues including cultural, economic, political and environmental conditions. Topics may include the natural environment, population distribution, cultural practices, political institutions, economic development, agricultural practices, and urbanization. 54 hours lecture. (Letter grade only)

GEG-4

Geography of California (C-ID:GEOG 140)

3.00 units
UC, CSU

Prerequisite: None.

Description: An introduction to California's physical and cultural diversity as well as the issues facing individual regions. The course introduces students to a geographic approach to observing, understanding, and explaining California's ethnic diversity, culture, environment, natural resources, geologic and human history, and environmental impact. Emphasis is placed on contemporary social, economic, and environmental issues that Californians are facing in the context of California's history and reputation as a leader in cultural, social, and technological innovation. Topics include the formation of California's physical landscapes and physiographic regions, natural resources, weather and climate, biogeography and ecology, environmental change, water resources, air quality, agriculture, technology and manufacturing, population, Native American history and demographic change, culture and ethnic and racial diversity. 54 hours lecture. (Letter grade or Pass/No Pass only)

GEG-5**Weather and Climate**
(C-ID:GEOG 130)**3.00 units**
UC, CSU*Prerequisite: None.*

Description: The nature and causes of common meteorological phenomena, severe weather occurrences, and climatic patterns. Topics include: atmospheric structure, solar radiation and energy balances, atmospheric moisture, clouds and fog, air pressure, wind, air masses and fronts, cyclones, tornadoes, hurricanes, weather forecasting, climate classification, and climate change. Understanding the human impact on weather and climate is an important thread throughout the course. 54 hours lecture. (Same as PHS-5.) (Letter grade only)

GEG-6**Geography of Us and Canada****3.00 units**
UC, CSU*Prerequisite: None.*

Description: An overview of the regions of the United States and Canada. Topics include physical geography, regional interactions and current political, economic, demographic and cultural issues. 54 hours lecture. (Letter grade only)

GEG-7**Map Interpretation and Analysis****3.00 units**
UC, CSU*Prerequisite: None.*

Description: Maps are tools that we use to navigate, explore, and understand our world. This course introduces us to maps and their interpretation and analysis as forms of data, information, and as tools of communication about our world. The elements of map design, including data sources, projections, scale, and symbology are examined. The role that map design, error, and subjective choices play in creating maps that inform, impress, or mislead, as well as other map purposes, may be covered. Fundamental skills, including the use of map grids, scale, and symbols to identify and interpret landscape features are developed. Methods and the use of tools for measurement and analysis of distances, areas, direction, and route finding with maps, will be practiced. The relationship between remote sensing data/satellite images and aerial photography may be examined, including image and air photo analysis techniques. 54 hours lecture. (Letter grade only)

GEG-8**Introduction to Geographic Information Systems, With Lab****3.00 units**
UC, CSU*Prerequisite: None.*

Description: Study of Geographic Information Systems (GIS) and science. Examines fundamental concepts including the utility of GIS in numerous career fields, digital data models, spatial database design, and approaches for spatial analysis of geographic data. Lab introduces students to applications of GIS for exploring environmental and social issues while developing core skills for working with, evaluating, and extracting information from digital map data. GIS and GPS applications will be used for data gathering, management, analysis, and display. 36 hours lecture and 54 hours laboratory. (Letter grade only)

GEG-30A**Field Studies in Geography****1.00 unit**
CSU*Prerequisite: None*

Description: A field course with trips to regional points of geographic interest. Can be delivered as a series of weekend field excursions or as one, week-long geography expedition to a site of interest. Includes guided field-based observations and investigations of regional geography including a variety of topographic expressions, basic geographic processes, and cultural landscapes. Students may be required to camp outdoors in campgrounds. Designed to supplement other courses in geography and to increase interest and understanding of the world we live in. Class meets during the first week of the semester. 54 hours laboratory. (Letter grade only)

GEG-30B**Field Studies in Geography****1.00 unit**
CSU*Prerequisite: None*

Description: A field course with trips to regional points of geographic interest. Can be delivered as a series of weekend field excursions or as one, week-long geography expedition to a site of interest. Includes guided field-based observations and investigations of regional geography including a variety of topographic expressions, basic geographic processes, and cultural landscapes. Students may be required to camp outdoors in campgrounds. Designed to supplement other courses in geography and to increase interest and understanding of the world we live in. Class meets during the first week of the semester. 54 hours laboratory. (Letter grade only)

GEG-30C**Field Studies in Geography****1.00 unit***Prerequisite: None*

Description: A field course with trips to regional points of geographic interest. Can be delivered as a series of weekend field excursions or as one, week-long geography expedition to a site of interest. Includes guided field-based observations and investigations of regional geography including a variety of topographic expressions, basic geographic processes, and cultural landscapes. Students may be required to camp outdoors in campgrounds. Designed to supplement other courses in geography and to increase interest and understanding of the world we live in. Class meets during the first week of the semester. 54 hours laboratory. (Letter grade only)

GEG-30D**Field Studies in Geography****1.00 unit**

CSU

Prerequisite: None

Description: A field course with trips to regional points of geographic interest. Can be delivered as a series of weekend field excursions or as one, week-long geography expedition to a site of interest. Includes guided field-based observations and investigations of regional geography including a variety of topographic expressions, basic geographic processes, and cultural landscapes. Students may be required to camp outdoors in campgrounds. Designed to supplement other courses in geography and to increase interest and understanding of the world we live in. Class meets during the first week of the semester. 54 hours laboratory. (Letter grade only)