

# GEOGRAPHY

## GEOGRAPHY (GEOG)

DIVISION: Natural Sciences

### GEOG 001 PHYSICAL GEOGRAPHY

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 110*

Introduction to the natural environment from a geographical perspective. Topics include geographic techniques, and their use to study air, water, land and life forms, with emphasis on their interconnections, interactions and world location patterns. Total of 54 hours lecture.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### GEOG 001L PHYSICAL GEOGRAPHY LABORATORY

**1 unit**

*Transfer Credit: CSU, UC*

*C-ID: GEOG 111*

**Prerequisite(s):** *Enrollment in or completion of GEOG 001*

Observation and interpretation of meteorological phenomena including statistical analysis of climatic data. Cartographic techniques and map interpretation. Global patterns of the biosphere, hydrosphere and lithosphere, showing their regional interrelationships. Required instructional trips. Total of 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### GEOG 002 CULTURAL GEOGRAPHY

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 120*

Study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Topics include: demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development. Total of 54 hours lecture.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### GEOG 003 WORLD REGIONAL GEOGRAPHY

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 125*

Introductory study of the world's countries, cultures and cultural regions from a geographic perspective. Focus on individual countries, with topics including history, culture, society, economy, government, environment, and current issues. Total of 54 hours lecture.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### GEOG 004 WEATHER AND CLIMATE

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 130*

Introduction to weather and climate, the science of weather, weather forecasting and interpretation of meteorological information available over the internet. No credit if taken after GEOL 024. Total of 54 hours lecture.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass*

### GEOG 006 CALIFORNIA GEOGRAPHY

**3 unit**

*Transfer Credit: CSU; UC credit under review.*

Thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. Exploration of the physical, and human landscapes that have evolved as a result of the human-environment interface. Total of 54 hours lecture.

**Grade Mode:** *Letter Grade, Pass/No-Pass*

### GEOG 011 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 155*

Exploration of geospatial technology including Geographic Information Systems (GIS) science and its applications to spatial data management. Learn how to identify and acquire GIS data, utilize vector and raster systems, use georeferencing, spatial analysis, modeling and Global Positioning Systems (GPS), and build map layouts with appropriate coordinate systems. Designed to complement other disciplines or as an entry level course into a geospatial program. Total of 36 hours lecture and 54 hours of laboratory.

**Grade Mode:** *Audit, Letter Grade*

### GEOG 012 MAP INTERPRETATION AND SPATIAL ANALYSIS

**3 unit**

*Transfer Credit: CSU; UC*

*C-ID: GEOG 150*

**Prerequisite(s):** *GEOG 011*

Further develop Geographic Information Systems skills through learning new spatial analysis techniques, including Geoprocessing, attribute analysis, spatial statistics, network analysis, surface modeling, basic python scripting, and data interpolation. This course focuses on using geographic methods to answer questions and solve problems. Total 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade*

**GEOG 020 INDEPENDENT STUDY****1 unit***Transfer Credit: CSU***Recommended Preparation:** Enrollment in or completion of any college-level (001-099) course in the Natural Sciences**Enrollment Limitation:** *Permission of the Dean*

Independent, faculty-guided student inquiry, project, research, laboratory experiment and/or field investigation. Total of 54 hours laboratory.

**Grade Mode:** *Letter Grade***GEOG 030 FIELD STUDIES AND METHODS IN GEOGRAPHY****1 unit***Transfer Credit: CSU**C-ID: GEOG 160***Recommended Preparation:** *GEOG 001*

Field studies of the geography of selected regions. Physical and cultural processes, characteristics and landscapes will be observed and analyzed. Specific physical and cultural content will vary by geographic region. Required instructional trips. Total of 18 hours lecture and 18 hours laboratory.

**Grade Mode:** *Audit, Letter Grade, Pass/No-Pass***GEOG 113 DATA ACQUISITION AND MANAGEMENT****3 unit****Prerequisite(s):** *GEOG 011*

Introduces fundamental concepts of primary GIS data creation. Topics include quantitative techniques for collection, classification, management of geographical data, and interpretation of a variety of data formats in GIS. Total of 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade***GEOG 114 CARTOGRAPHIC DESIGN****3 unit****Prerequisite(s):** *GEOG 011*

Fundamental cartographic concepts. Design principles and creation of effective visual representations of data in different formats. Topics include ethical and appropriate application of map scale, map projections, generalization and symbolization. Total of 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade***GEOG 115 ENVIRONMENTAL ANALYSIS WITH GIS****3 unit****Prerequisite(s):** *GEOG 011*

Data collection and management skills. Working as part of a GIS team trying to solve specific problems from an environmental analysis perspective. Development of consulting skills and best practices for beginning-to-end project development. Introduction to the field of environmental analysis and consulting. Total 36 hours lecture and 54 hours laboratory.

**Grade Mode:** *Audit, Letter Grade*