

# GEOGRAPHY (GEOG)

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## GEOG Courses

### GEOG 150. Human Geography. 4 units

Term Typically Offered: F, W, SP

2020-21 or later catalog: GE Area D2

2019-20 or earlier: GE Area D2 or D3

Sustainability Related

The interplay of cultures, places, and environments, with emphasis on diversity and globalization. Topics include characteristics and patterns of human population, migration, ethnicity, agriculture, geopolitics, language, religion, urbanization, industry, and international development. Course may be offered in classroom-based, online, or hybrid format. 4 lectures. Fulfills GE Area D2 (GE Area D2 or GE Area D3 for students on the 2019-20 or earlier catalogs).

### GEOG 200. Special Problems for Undergraduates. 1-4 units

Term Typically Offered: TBD

Prerequisite: Consent of department head.

Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 8 units, with a maximum of 4 units per quarter.

### GEOG 218. Applications in GIS. 4 units

Term Typically Offered: F, W

Introduction to Geographic Information System (GIS) computer software to explore environmental, natural resource, social and economic issues using spatial data. Principles of cartography and map interpretation. Development of data base and software management competencies. 2 lectures, 2 laboratories. Replaces GEOG 318.

### GEOG 250. Physical Geography. 4 units

Term Typically Offered: F, W

Sustainability Related

Addresses the origins and patterns of the earth's diverse assemblage of climates, landforms, biota and soils. A major focus on relationship between human cultures and these earthly environments. 4 lectures. Crosslisted as ERSC/GEOG 250.

### GEOG 270. Selected Topics. 1-4 units

Term Typically Offered: TBD

Prerequisite: Open to undergraduate students and consent of instructor.

Directed group study of selected topics. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

### GEOG 308. Global Geography. 4 units

Term Typically Offered: F, W, SP

2020-21 or later: Upper-Div GE Area D

2019-20 or earlier catalog: GE Area D5

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and completion of GE Area D1.

Examination of the major world regions such as Europe, the Middle East, Africa, Asia and Latin America. Focus on the origins and content of contemporary cultural landscapes and on their utility for understanding international differences, interactions, and current events. Particular attention to the relationship between humans and the environment. Course may be offered in classroom-based, online, or hybrid format. 4 lectures. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

### GEOG 325. Climate and Humanity. 4 units

Term Typically Offered: SP

Sustainability Focused

Prerequisite: Junior standing.

Geographic perspective on the interrelationships between climate and human cultures. Effects of people on climate and the influence of climate and weather upon human activities and behavior. Focus on global human conditions which are responsible for the alteration of climate and in turn are vulnerable to climate change. 4 lectures. Crosslisted as ERSC/GEOG 325.

### GEOG 328. Applications in Remote Sensing and GIS. 4 units

Term Typically Offered: F, W

Prerequisite: GEOG 218 or NR 218.

Introduction to the use of satellite imagery to analyze natural and human features on the earth. Applications in geology, water, climate, vegetation, agriculture, and urban land use. Fundamentals of processing digital satellite images. Emphasis on bridging the earth and social sciences. 3 lectures, 1 laboratory.

### GEOG 333. Human Impact on the Earth. 4 units

Term Typically Offered: TBD

Sustainability Focused

Prerequisite: Junior standing.

Global assessment of the impact of humans on the earth's vegetation, animals, soil, water and atmosphere. Emphasis on problems stemming from the interactions of human attitudes, technologies, and population with natural resources. 4 lectures. Crosslisted as ERSC/GEOG 333.

### GEOG 340. Geography of California. 4 units

Term Typically Offered: TBD

Prerequisite: Junior standing.

Analysis of the land and people of California from a geographical perspective. Patterns of environment, history, settlement, water, agriculture, ethnicity, economy, politics, and urban growth. Current issues are examined in a national and global context. 4 lectures.

**GEOG 350. The Global Environment. 4 units**

Term Typically Offered: F, W, SP

2020-21 or later: Upper-Div GE Area B

2019-20 or earlier catalog: GE Area B5, B6, or B7

Sustainability Focused

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Interdisciplinary investigation of how human activities impact the Earth's environment on a global scale. Examination of population, resource use, climate change, and biodiversity from scientific/technical and social/economic/historical/political perspectives. Use of remote sensing maps. Sustainable solutions. Course may be offered in classroom-based, online, or hybrid format. 4 lectures. Crosslisted as AG/EDES/ENGR/GEOG/ISLA/SCM/UNIV 350. Fulfills GE Area Upper-Division B (GE Areas B5, B6, or B7 for students on the 2019-20 catalog).

**GEOG 370. Geography of Latin America. 4 units**

Term Typically Offered: W

2020-21 or later: Upper-Div GE Area D

2019-20 or earlier catalog: GE Area D5

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one course in GE Area D2 (or in GE Area D3 for students on the 2019-20 or earlier catalogs).

Geographic analysis of the lands and peoples of Mexico, Central America, the Caribbean, and South America. Patterns of environment, culture, politics, economy, and development. Issues (local, regional, and global) shaping Latin America today, with emphasis on U.S.-Latin America relations. 4 lectures. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

**GEOG 380. Geography of the Caribbean. 4 units**

Term Typically Offered: F

2020-21 or later: Upper-Div GE Area D

2019-20 or earlier catalog: GE Area D5

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and two lower-division courses in GE Area D.

Geographic analysis of the Caribbean including the Greater Antilles, Lesser Antilles, and the Caribbean coasts of Central and South America. Investigates patterns and relationships between the physical and cultural geographies from local, regional, and global perspectives. 4 lectures. Fulfills GE Upper-Division D (GE Area D5 for students on the 2019-20 or earlier catalogs).

**GEOG 384. Professional Preparation for Anthropologists/Geographers. 1 unit**

Term Typically Offered: TBD

CR/NC

Prerequisite: Sophomore standing; ANT 201 or GEOG 150.

Preparation for professional advancement in the fields of anthropology and geography. Supervised career planning emphasizing resume development, selection of an internship or international experience, exploration of career options and graduate programs. Lectures from outside, practicing professionals. Credit/No Credit grading only. 1 seminar. Formerly GEOG 464.

**GEOG 400. Special Problems for Advanced Undergraduates. 1-4 units**

Term Typically Offered: TBD

Prerequisite: Consent of department head.

Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 8 units, with a maximum of 4 units per quarter.

**GEOG 408. Geography of International Development. 4 units**

Term Typically Offered: SP

Sustainability Focused

Prerequisite: GEOG 308.

Detailed analysis of international development from a geographical perspective. Survey of various theories of development and their cultural and ecological components at multiple geographic scales, including institutions and actors involved. Applicable skills for development research and practice, emphasizing sustainability. 4 lectures.

**GEOG 414. Global and Regional Climatology. 4 units**

Term Typically Offered: TBD

Sustainability Related

Prerequisite: Junior standing.

The earth's pattern of climates and the physical processes that account for them. Focus on interrelationships between climate and the physical/biological and cultural environments. Special emphasis on modern climate changes and their consequences. 3 lectures, 1 laboratory. Crosslisted as ERSC/GEOG 414.

**GEOG 415. Applied Meteorology and Climatology. 4 units**

Term Typically Offered: W

Prerequisite: ERSC/GEOG 250.

Physical processes in the atmosphere that determine regional weather, climate and climate variability. Surface and satellite systems for weather observation, and weather/climate modeling. Dynamics of weather systems, including thunderstorms and hurricanes. Emphases on weather/climate affecting agriculture and other human activities. 3 lectures, 1 activity. Crosslisted as ERSC/GEOG 415.

**GEOG 435. Biodiversity and Biogeography Methods. 4 units**

Term Typically Offered: SP

Prerequisite: ERSC/GEOG 250.

Origins and spatial patterns of the earth's flora and fauna across gradients of climate, landforms, geology and time. Will focus on the history of biogeography and new applications of geospatial technology such as GIS and remote sensing. 3 lectures, 1 laboratory.

**GEOG 441. Advanced Applications in Geospatial Technologies. 4 units**

Term Typically Offered: SP

Prerequisite: GEOG 218 or LA/NR 218. Recommended: BRAE 345 or GEOG 328.

Advanced applications in Geographic Information Systems (GIS), Remote Sensing, and other geospatial technologies. Emphasizing research, methodologies, and career fields in geography, earth sciences, and the social sciences. The Class Schedule will list topic selected. Total credit limited to 12 units. 2 lectures, 2 laboratories.

**GEOG 455. Anthropology-Geography Research Design and Methods. 4 units**

Term Typically Offered: SP

Prerequisite: Completion of GE Area B2; and two upper-division ANT or GEOG courses.

Development of knowledge and skills needed to conduct original scientific anthropology-geography research and prepares students for senior projects. Various empirical methodologies highlighted, with a focus on quantitative design and measurement of human culture, biology, behavior, environment and ecology. Course may be offered in classroom-based, online, or hybrid. 3 lectures, 1 laboratory. Crosslisted as ANT/ GEOG 455.

**GEOG 461. Senior Project I. 2 units**

Term Typically Offered: F, W, SP

Prerequisite: Senior standing.

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Project results are presented in a formal report. Minimum 120 hours total time.

**GEOG 462. Senior Project II. 2 units**

Term Typically Offered: F, W, SP

Prerequisite: Senior standing.

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Project results are presented in a formal report. Minimum 120 hours total time.

**GEOG 465. Internship. 3-8 units**

Term Typically Offered: TBD

CR/NC

Prerequisite: GEOG 464, senior standing and/or consent of instructor.

Supervised training, research, and work in public and private organizations. Credit/No Credit grading only. Total credit limited to 18 units.

**GEOG 470. Selected Advanced Topics. 1-4 units**

Term Typically Offered: TBD

Prerequisite: Consent of instructor.

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Class Schedule will list topic selected. Total credit limited to 12 units. 1 to 4 lectures.