Geography

Geography is the study of the spatial distributions and space relations within the human-environment system composing the surface of the earth. Attention is focused on historic and contemporary human activities within the context of the biophysical and cultural environment, and the emergence of humanity as one of the major agents of change on the earth’s surface.

The Associate in Arts Degree option in Geography provides for a liberal education and prepares one for positions in business, government, service in foreign areas and, especially, teaching. When combined with electives in art, music, English, foreign languages, geological sciences and mathematics, geography is excellent preparation for elementary teaching. When combined with other social science fields (anthropology, economics, history, political science, sociology, social psychology, social science), geography is excellent preparation for secondary teaching in social studies. Combining an emphasis in physical-biotic geography with other science fields (biology, chemistry, earth sciences, mathematics, physics, psychology, statistics) is excellent preparation for secondary teaching in science and environmental studies.

Coursework in geography, which includes Geographic Information Systems (GIS), prepares students for a wide range of jobs that employ computers to gather, manipulate, analyze and report spatial data. There is rapid growth in the use of GIS in natural resource management, urban planning, marketing, real estate, criminology, emergency services, public health, scientific research and many other areas. GIS courses are also useful for transfer students in geography and other environmental and natural science-oriented disciplines. GIS is an important tool for many other disciplines which use maps and spatial referenced data.

Career Alternatives

Regional or Urban Planner
Cartographer
Geographic Information Systems Analyst
Teacher
Park Ranger
Meteorologist
Land Use Planner
Climatologist
Ecologist
Field Analyst
Marketing Analyst
Photographic Interpreter
Research Analyst
Travel Agent
Earth Scientist
Recreational Resource Planner
Demographer
Foreign Area or Intelligence Analyst
Environmental Scientist
Realtor
Regional Systems Analyst
Surveyor
Map Librarian
Resource Economist
Research Geographer

Research in:
Landforms
Marketing
Political Structures
Soils
Transportation
Urban Systems
Vegetation
Water

Faculty and Offices

Information/Assistance: EBS-114, ext. 2315
(Jan Anderson)
Jeffrey W. Meyer, Chair (EBS-110, ext. 4270)
Michael Robinson (EBS-124, ext. 3741)

Degree Awarded
Associate in Arts Degree, Geography
A.A. Degree: Geography

Department Requirements (25-26 units)

ANTH 103 — Introduction to Cultural Anthropology or
ERTH 111+ — Dynamic Earth-Physical Geology or
ERTH 111H+ — Dynamic Earth-Physical
Geology, Honors
ERTH 111+ — Dynamic Earth-Physical
Geology, Honors ........................................4
ERTH 141+/GEOG 101+ — Physical Geography .........3
ERTH 142/GEOG 105 — Economic Geography .............3
ERTH 171/GEOG 171 — Introduction to GIS and Maps ......2
ERTH 172/GEOG 172 — GIS: Software Applications ..........2
GEOG 102 — Cultural Geography ................................3

Controlled Electives (9 Units):
ANTH 121, 122, 123, 124, 125, 126; BOT 100, 121 or BIOL 103; ERTH 111+, 111H+, 111L+, 112+, 113, 114, 115+, 116+, 121, 131, 132, 133, 141L+, 151+, 152; ENVS 115+, 116+; GEOG 101L+, 152.

+Satisfies Area A of the SBCC General Education Requirements if both lecture and lab are completed.

Note: A course may not be used to satisfy more than one requirement (double-counting is not allowed).

Recommendation: It is strongly recommended that transfer students in Geography take ERTH 141 and 152. In addition, Associate Degree students should take a broad background of electives in the Social Sciences and the Earth Sciences.

College Requirements

For complete information, see “Graduation Requirements” in the Catalog Index.

Planning a Program of Study

In order to plan the best possible program of study to meet individual needs, students are encouraged to contact the Geography Department chairperson, faculty adviser, or counselor assigned to the Social Sciences Division. These persons are eager to assist students—and they welcome the opportunity to be helpful.

Preparation for Transfer

Course requirements for transfer vary depending upon the college or university a student wishes to attend. Therefore, it is most important for a student to consult with his/her counselor and departmental adviser before planning an academic program for transfer. Information sheets for majors, outlining transfer requirements, are available in the Counseling/Transfer Centers.

Honors and Awards

The Geography faculty selects one student each year to be honored as “Outstanding Student.” Students are nominated by members of the faculty and selections are made on the basis of academic scholarship and a student’s contribution to our community’s understanding of political events.

Special Programs and Courses

Geography Club

Students who are interested in exploring geography with their peers are invited to join the Geography Club. See Mr. Robinson for further information.

Advising

Our faculty is eager to provide counseling to students seeking to explore career opportunities which relate to Geography as a major or who simply need further information about any of our course offerings.

Student Participation

We invite student input at any time about needed changes in curriculum or additions to our program. Our course offerings are constantly under review and we welcome student perspective.
Course Descriptions

GEOG 101/ERTH 141 — Physical Geography
(3) F, S — CSU, UC
Skills Advisories: MATH 1 and ENG 103
Course Advisories: Concurrent enrollment in ERTH 141L/GEOG 101L

Introduction to the earth sciences. Interrelationships among the basic elements of the physical environment are examined. Topics include geology, geomorphology, meteorology, climatology, hydrology and agronomy. Required of Geography majors.

GEOG 101L/ERTH 141L — Physical Geography Laboratory
(1) F, S — CSU, UC
Corequisites: GEOG 101/ERTH 141
Skills Advisories: MATH 1 and ENG 103

Laboratory approach to a combination of earth science disciplines, including cartography, geology, geomorphology, meteorology and oceanography. Remote sensing techniques are utilized in 75% of laboratory activities.

GEOG 102 — Cultural Geography
(3) F, S — CSU, UC
Skills Advisories: Eligibility for ENG 110 or ENG 110H

Cultural geography is an exploration of culture around the world as seen in the patterns of settlement, belief systems, economic development, political units and responses to the physical world. Investigates the characteristics of the countries of the world divided into regional groupings. The dynamics between countries and regions are also explored as they affect the cultural landscape.

GEOG 104 — World Regional Geography
(3) F, S, Summer — CSU
Skills Advisories: Eligibility for ENG 110

Global survey of cultural regions, people and environments. Geographic methodologies are employed to evaluate people, resources, landscapes, livelihoods and economies across eight major geographic regions. The gap between developed and undeveloped economies, the global roles and interconnections of countries and regions, and the conflicting pressures between cultural diversity and globalization are analyzed.

GEOG 105/ERTH 142 — Economic Geography
(3) F, S — CSU, UC
Skills Advisories: MATH 4 and ENG 103

Designed for students majoring in Geography. Addresses regional patterns of principal economic activities of the world, with an emphasis on economic development and the problems of urbanization, transportation and the environment.

GEOG 106 — Geography of California
(3) F, S — CSU, UC
Skills Advisories: Eligibility for ENG 110 or ENG 110H

Non-technical survey of the wide variety of natural and human environments found in California. It includes a regional study of physical landscapes, economic activities, characteristics of population, cities and rural areas, and current environmental problems. California’s interaction with other parts of the U.S. and world is also covered.

GEOG 152/ERTH 152 — Weather and Climate
(3) F, S — CSU, UC
Skills Advisories: MATH 1 and ENG 103

Fundamentals of meteorology, including the nature of the atmosphere, circulation of the atmosphere, air masses and fronts, weather analysis, weather at sea and forecasting. The climates of the earth with California’s varied climate and local weather phenomena emphasized, as well as future climatic changes. Required of all Environmental Studies and Marine Science majors.

GEOG 171/ERTH 171 — Introduction to Geographic Information Systems (GIS) and Maps
(2) F — CSU, UC
Corequisites: GEOG 172/ERTH 172
Skills Advisories: MATH 4 and ENG 103

Introduction to the techniques, tools and theories used to examine geographic information, with focus on Geographic Information Systems (GIS). Includes the structure, uses, hardware and software requirements, and basic operations of a GIS. Cartography and cartographic design are incorporated, as well as overviews of aerial photography, remote sensing and global positioning systems. Includes uses of GIS software in business, urban planning, resource management and scientific research.
GEOG 172/ERTH 172 — Geographic Information Systems: Software Applications
(2) S — CSU
Corequisites: ERTH 171/GEOG 171 (taken concurrently)
Skills Advisories: ENG 103

Extensive practice with a GIS package (ArcGIS or similar GIS software), accompanied by exploration of the range of applications in which GIS is used (e.g., resource management, public works, business, planning, scientific research). Covers the key skills for operating GIS software packages, including geographical data acquisition, creation, management, analysis and output.

GEOG 175/ERTH 175 — Raster GIS Applications
(2) F, S — CSU
Prerequisites: GEOG 172/ERTH 172

Hands-on introduction to basic raster concepts, using ArcGIS Spatial Analyst extension within the Arc Map environment. The underlying methodology required to solve real world problems is explored through a series of extensive course projects. Key skills in data acquisition, surface creation techniques, map algebra, database design and results reporting are covered.

GEOG 299 — Independent Study in Geography
(1-3) F, S — CSU

Limitation on Enrollment: Six units of Geography with a 3.0 or above GPA; minimum 12 units of course work completed at SBCC with GPA of at least 2.5.

For complete information, see “Independent Study” in the Catalog Index. (*UC transfer limit: 299 computed as Independent Study; please see counselor)