SUBJECTS & COURSE DESCRIPTIONS

Anthropology (ANTHRO)

101 Human Biological Evolution (3) UC:CSU IGETC Area 5B
Lecture, 3 hours.
This course covers the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. There is a specific focus on molecular, Mendelian and population genetics, mechanisms of evolution, primatology, paleoanthropology, biocultural adaptations, human variation, and current bioethical issues. The philosophy of science and the scientific method serve as foundations to the course.

102 Human Ways of Life: Cultural Anthropology (3) UC:CSU IGETC Area 4A
Lecture, 3 hours.
This course is an introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems. Subjects include subsistence patterns, social and political organization, language and communication, family and kinship, religion, the arts, social inequality, ethnicity, gender, and culture change. The course applies anthropological perspectives to contemporary issues.

103 Archaeology: Reconstructing the Human Past (3) UC:CSU
Lecture, 3 hours.
This course is an introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; and selected cultural sequences.

104 Human Language and Communication (3) UC:CSU IGETC Area 4B, 4A
Lecture, 3 hours.
This course is an introduction to the anthropological study of language. This course includes a survey of core topics in linguistics (phonetics, phonology, morphology, syntax, and semantics) and the relationship of language to social, cultural, and psychological factors. The course may include topics in nonverbal communication, the evolution of language abilities, and historical linguistics.

109 Gender, Sex and Culture (3) UC:CSU IGETC Area 4D
Lecture, 3 hours.
This course provides a world-wide comparison of sexuality and gender as viewed from various perspectives, including the biological/evolutionary, the cultural, the psychological, the historic, and the prehistoric, especially as they relate to the experiences of males and females in contemporary Western society.

111 Laboratory in Human Biological Evolution (2) UC:CSU IGETC Area 5C
Corequisite: Anthropology 101.
Lecture, 1 hour; Laboratory, 2 hours.
This course is a laboratory course that covers the methods, techniques, and procedures used in biological/physical anthropology research. Subjects include: Molecular, Mendelian, and population genetics; modern human variation; human osteology and forensic analysis; modern primate studies; and the hominin fossil record.

121 Anthropology of Religion, Magic and Witchcraft (3) UC:CSU IGETC Area 4A
Lecture, 3 hours.
This course is an anthropological introduction to forms, functions, origins and expressions of belief systems and rituals within their cultural contexts. Topics include religious symbolism, myth, magic, divination, animism, animalism, shamanism, totemism, ancestor worship, religious specialists, witchcraft, syncretism, millenarian and other religious movements.

132 Native People of North America (3) UC:CSU IGETC Area 3B
Lecture, 3 hours.
This course examines the history, culture, religion, art, and political organization of selected Native North American cultures from pre-Western contact to the contemporary period, with particular emphasis on the processes of social, cultural, and political change in the post-contact period. The history of interactions between indigenous North Americans and other ethnic groups and their relevance to contemporary Native American issues are also explored.

185 Directed Study - Anthropology (1) CSU
Lecture, 3 hours.
The above courses allow students to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

285 Directed Study - Anthropology (2) CSU
Conference 1 hour per week per unit.
The above courses allow students to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

Earth Science (EARTH)

1 Earth Science (3) UC:CSU IGETC Area 5A
Lecture, 3 hours.
This course surveys the science of whole Earth inquiry and thereby includes the following topics: Scientific method, Earth systems, Earth materials, internal processes, surface processes, oceans, atmosphere, Earth origins, and Earth history. Students are introduced to important contributions to the study of these topics from the fields of geography, geology, oceanography, chemistry, astronomy, physics, and biology with special attention to the cycling of elements such as Carbon through Earth systems within the organizing paradigms of contributory disciplines such as Plate Tectonic Theory, the Theory of Evolution, and the Big Bang.

2 Earth Science Laboratory (2) UC:CSU IGETC Area 5C (C-ID GEOL 120L)
Corequisite: Earth Science 1.
Lecture, 1 hour; Laboratory, 2 hours.
Note: Credit given for only one of Earth Science 2 or Geology 6.
Earth Science Laboratory supplements Earth Science Lecture. Students are introduced to the study of Earth materials by learning to identify common minerals and rocks. Interpretations of processes acting on and within the Earth are approached through the study of information contained in maps, aerial photographs, and data sets collected from a variety of Earth-sensing instruments.
The above courses allow students to pursue directed field or laboratory study in Earth Science under the direction of a supervising instructor. Directed study for one unit may consist of field study undertaken during three field trips given each semester.

CREDIT LIMIT: A maximum of 6 units in directed study may be taken.

Note: UC Credit for variable topics courses in this discipline is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC.

Environmental Science (ENV SCI)

1. The Human Environment: Physical Processes (3) UC:CSU IGETC Area 5A

   LECTURE, 3 HOURS.

   A study of the earth’s physical environment and the changes due to human activities. This human-environment interaction is explored with regards to the Earth’s atmosphere, biosphere, hydrosphere, and lithosphere. Issues such as human populations, energy generation and use, pollution, resources, and global climate change are discussed.

17. Geography of California (3) UC:CSU IGETC Area 4E (C-ID GEOG 140)

   LECTURE, 3 HOURS.

   Note: Credit given for only one of Environmental Science 17 or Geography 14.

   This course is a regional study of California, its physical features and natural resources in relation to patterns of population and settlement, enonomic activities, transportation routes and trade.

24. Global Climate Change (3) UC:CSU IGETC Area 5A

   LECTURE, 3 HOURS.

   This course covers the concepts, methods of inquiry, and theory of climate change brought on by both natural and human influences. The course covers the physical and biological impacts of a changing climate, earth’s paleoclimate, and the current climate as well as future climate prediction models.

Environmental Studies (ENVSTDS)

102. Environmental Studies: Sustainability (3) UC:CSU

   LECTURE, 3 HOURS.

   This course presents the fundamental ideas of sustainability from a scientific point of view. It begins with a study of the types of energy, natural and biological resources needed to support modern civilization, including consideration of the origin, supply and uses of such resources. It examines issues related to sustainability such as climate change, food and agriculture, population, economics, transportation, and spatial planning. The course includes a brief examination of environmental history followed by discussion of the possibility of realizing a sustainable future.

103. Environmental Studies Laboratory (2) UC:CSU

   Corequisites: Environmental Science 1 or Environmental Studies 102.

   LECTURE, 1 HOUR; LABORATORY, 2 HOURS.

   The scientific method is used in hands-on investigations of many issues concerning the environment. Topics covered include:

   Renewable energy, such as solar power and biofuels, air, water, and soil quality, recycling, toxic chemicals, and ecosystems. The human impact on the environment is estimated from land use studies and environmental evaluations.

Geographic Information Systems (GIS)

31. Introduction to Geographic Information Systems (3) UC:CSU

   LECTURE, 3 HOURS.

   Note: Credit given for only one of Geographic Information Systems 31 or Geography 31.

   This course deals with fundamentals of GIS; mapping concepts; structures of GIS data; types and acquisitions of GIS data; fundamentals of spatial database; techniques of spatial analysis; generation of GIS output; and the future of GIS technology.

32. GIS Applications: Arcview (3) CSU

   LECTURE, 2 HOURS; LABORATORY, 2 HOURS.

   Advisory: Geographic Information Systems 31.

   This course provides students with a brief survey of the fundamentals of Geographic Information Systems (GIS). The course provides hands-on experience with hardware and software elements used in GIS with an emphasis on vector-based data structures using ArcGIS. Raster-based data structures and software are also presented. Specific topics include hands-on experience in map scales, coordinate systems, data sources and accuracy, data structures, working with spatial data, map features and attributes, map overlays, manipulation of databases, creation of charts and graphs, and presentation of data in map layouts.

Geography (GEOG)

1. Physical Geography (3) UC:CSU IGETC Area 5A (C-ID GEOG 110)

   LECTURE, 3 HOURS.

   This course is a study of the earth’s physical environment, with emphasis upon the earth as a planet, including maps, weather and climate, natural vegetation, soils, landforms, water and global patterns of distribution.

2. Cultural Elements of Geography (3) UC:CSU IGETC Area 4E (C-ID GEOG 120)

   LECTURE, 3 HOURS.

   Students learn about human cultural variables in the context of the globe, including the description, analysis, and explanation of population, migration, folk and popular culture, language religion, ethnicity, political geography, development, agriculture, industry, economic activities, urban areas, and resource utilization. Special emphasis is placed on contemporary issues such as the effects of globalization and the impact of human settlements on the natural environment. Students also learn basic geographic literacy and map reading.

3. Introduction to Weather and Climate (3)

   UC:CSU IGETC Area 5A (C-ID GEOG 130)

   LECTURE, 3 HOURS.

   Note: Credit given for only one of Geography 3 or Meteorology 3.

   An introductory course presenting the causes of weather types and climates, their global distribution, climatic change, weather modification, air pollution, and practical applications in agriculture, industry, and daily life.
14 Geography of California (3 UC:CSU IGETC Area 4E (C-ID GEOG 140))
Lecture, 3 hours.
Note: Credit given for only one of Geography 14 or Environmental Science 17.
A regional study of California, its physical features and natural resources in relation to patterns of population and settlement, economic activities, transportation routes and trade.

15 Physical Geography Laboratory (2 UC:CSU IGETC Area 5C (C-ID GEOG 111))
Corequisite: Geography 1.
Lecture, 1 hour; Laboratory, 2 hours.
This course provides laboratory experiences in topics covered in Physical Geography lecture such as map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, habitat analysis, and computer applications in geography.

31 Introduction to Geographic Information Systems (3 UC:CSU)
Lecture, 3 hours.
Note: Credit given for only one of Geography 31 or Geographic Information Systems 31.
This course deals with fundamentals of GIS: mapping concepts; structures of GIS data; types and acquisitions of GIS data; fundamentals of spatial database; techniques of spatial analysis; generation of GIS output; and the future of GIS technology.

185 Directed Study - Geography (1) CSU
285 Directed Study - Geography (2) CSU
385 Directed Study - Geography (3) CSU
CONFERENCE 1 HOUR PER WEEK PER UNIT.
These courses allow students to pursue Directed Study in Geography on a contract basis under the direction of a supervising instructor.
CREDIT LIMIT: A MAXIMUM OF 6 UNITS IN DIRECTED STUDY MAY BE TAKEN FOR CREDIT.
Note: UC Credit for variable topics courses in this discipline is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC.

Geology (GEOLOGY)

1 Physical Geology (3 UC:CSU IGETC Area 5A)
Lecture, 3 hours.
This course offers an introductory study of the earth, including discussion of minerals and rocks and how they form. Earth processes, such as volcanic activity, weathering, earthquakes, plate tectonics, and mountain building are covered. The course examines features of the earth, such as rivers, deserts, glaciers, shorelines, and the ocean floor. Geologic time and earth history are also discussed.

4 Physical Geology and Laboratory (5 UC:CSU IGETC Area 5A, 5C)
Lecture, 4 hours; Laboratory, 2 hours.
This is an introductory course designed to acquaint the student with a general knowledge of planet Earth. Materials and structures of the Earth are studied along with the processes and agencies by which the Earth is changed. The laboratory supplements the lecture with the study of minerals, rocks, aerial photographs, maps, and analysis of geologic data sets.

6 Physical Geology Laboratory (2 UC:CSU IGETC Area 5C (GEOL + GEOL 1 = GEOL 4))
Corequisite: Geology 1.
Lecture, 1 hour; Laboratory, 2 hours.
Note: Credit given for only one of Geology 6 or Earth Science 2.
This course supplements Geology lectures with exercises in rock and mineral identification, reading and construction of topographic maps and profiles, interpretation of geologic maps and diagrams, evaluation of seismic and tectonic data, and the recognition and evaluation of landforms from topographic maps and aerial photos.

185 Directed Study - Geology (1) CSU
285 Directed Study - Geology (2) CSU
385 Directed Study - Geology (3) CSU
CONFERENCE 1 HOUR PER WEEK PER UNIT.
These courses allow students to pursue Directed Study in Geology on a contract basis under the direction of a supervising instructor.
CREDIT LIMIT: A MAXIMUM OF 6 UNITS IN DIRECTED STUDY MAY BE TAKEN FOR CREDIT.
Note: UC Credit for variable topics courses in this discipline is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC.
International Business (INTBUS)

1 International Trade (3) CSU
LECTURE, 3 HOURS.
This foundation course in international trade provides a global logistics and international marketing perspective to importing and exporting. From world trade agreements and regulations to practices and procedures, the course surveys the global business environment, international supply chain management, international market entry, international contracts, terms of trade, terms of payment, currency of payment, documentation, U.S. Customs, and competitive advantage strategies.

2 Transport Systems (3)
LECTURE, 3 HOURS.
This course examines the global transport systems used in importing and exporting. Emphasis is given to the role of ocean, air, land, and multimodal transport infrastructures as key components of international supply chain management operations. Supporting international trade topics include commercial terms of trade, commercial and transportation documents, insurance, packaging for export, Logistics infrastructure and security, and United States Customs clearance.

3 Export Procedures I (3) CSU
LECTURE, 3 HOURS.
This course provides hands-on working knowledge in the business of exports, its procedures and required documentation. The course covers the export transaction from inception to receipt of payment. Topics include: evaluation of a company’s export readiness and potential, market research, identification of the best export markets, costing, quotations, letters of credit, major export products, marketing, terms of sale, marine insurance, transportation, sales contracts, documentation, and U.S. export controls.

4 Import Procedures I (3) CSU
LECTURE, 3 HOURS.
This course focuses on international trade strategies and techniques and presents an overview of importing terms. The concepts of management, finance, operations, law, communications, marketing and ethics as they apply to imports are discussed. Topics include: overseas purchasing, import operations, U.S. government regulations, finance, documentation, record keeping, international trade treaties, and global culture. Additionally, the class covers bilateral trade relations, unique country profiles, and product sourcing modalities. U.S. and World Customs duty rate structure and the role of customs brokers and freight forwarders are highlighted. International currency transactions, storage, distribution and transportation are also discussed.

Meteorology (METEOR)

3 Introduction to Weather and Climate (3)
UC/CSU IGETC Area 5A (C-D GEOG 130)
LECTURE, 3 HOURS.
Note: Credit given for only one of Meteorology 3 or Geography 3.
An introductory course presenting the causes of weather types and climates, their global distribution, climatic change, weather modification, air pollution, and practical applications in agriculture, industry, and daily life.

Oceanography (OCEANO)

1 Introduction to Oceanography (3) UC/CSU IGETC Area 5B
LECTURE, 3 HOURS.
This course introduces the student to the field of physical oceanography. Major topics include: plate tectonics and features of seafloor topography, coastal processes, estuaries, properties of seawater, waves, tides, currents, marine resources and pollution, global ocean/atmosphere interactions, and the effects of physical oceanographic factors on marine life and marine ecosystems.

10 Physical Oceanography Laboratory (2) UC/CSU IGETC Area 5C
Corequisite: Oceanography 1.
LECTURE, 1 HOUR; LABORATORY, 2 HOURS.
This course supplements Oceanography 1 by providing introductory practical experience in measurements, and quantitative analytical skills in oceanography. Major topics include navigational charts, scientific graphs, bathymetric contours and profiles, properties of seawater, waves, tides, atmospheric phenomena, coastal features, marine pollution, and sediments.

185 Directed Study - Meteorology (1) CSU
285 Directed Study - Oceanography (2) CSU
385 Directed Study - Oceanography (3) CSU
CONFERENCE 1 HOUR PER WEEK PER UNIT.
These courses allow students to pursue Directed Study in Meteorology on a contract basis under the direction of a supervising instructor.
CREDIT LIMIT: A MAXIMUM OF 6 UNITS IN DIRECTED STUDY MAY BE TAKEN FOR CREDIT.
Note: UC Credit for variable topics courses in this discipline is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC.