# Geography ASSOCIATE OF ARTS

The A.A. degree in Geography will be awarded upon completion of the major course requirements listed below and the General Education requirements for the Associate in Arts Degree listed in the Degrees, Programs & Transfer Requirements section of this Catalog.

The A.A. degree in Geography at College of Alameda offers students the opportunity to prepare for a broad range of professions through the study of the spatial distribution of global physical features, environmental processes, and aspects of human culture that impact global environments.

# **Career Opportunities**

Career Opportunities include but are not limited to: Aerial Photo Interpreter; Agricultural Geographer; Cartographer; Census Analyst; Climatologist; Community Development Specialist; Demographer; Development Specialist; Ecologist; Economic Development Analyst; Environmental Analyst/Planner; Geographical Information Systems Specialist; Map Curator; Natural Resources Manager; Park Ranger.

# **Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- Describe the spatial organization of the world's peoples, nations, cultural environments
- Demonstrate knowledge of global physical and environmental processes and develop an appreciation of landscapes.
- Demonstrate an understanding of how human activities impact the physical environment.

# **Degree Major Requirements**

DEPT/NO.	TITLE	UNITS	
Required Courses (7 units)			
GEOG 1	Physical Geography	3	
GEOG 1L	Physical Geography Laboratory	1	
GEOG 2	Cultural Geography	3	

# Select a minimum of 4 courses from the following: (12-13 units)

GEOG 3	World Regional Geography (3)	
GEOG 15	Introduction to Weather and Climate (3)	
GEOG 18	California Geography (3)	
GEOG 14	Introduction to Geographic Information Systems (4)	12-13
GEOL 3	Historical Geology (3)	
GEOL 10	Introduction to Geology (3)	
ANTHR 3	Introduction to Social and Cultural Anthropology (3)	

Total units required for major: 19-20

G.E. and Elective Units Required: 40-41

Total Units Required for Degree: 60

The Associate of Arts in Geography Transfer Degree (AA-T) is designed for students planning to transfer into the geography major. A student pursuing this degree will meet the AB 1440 Transfer Curriculum Model for CSU.

What is Geography? Humans have long pondered their place in the natural world, recognizing both the challenges and opportunities afforded them by the environment and, more recently, the effects of human activities in modifying that environment. This interplay of natural systems and human societies is the subject of the field of geography. Physical geography focuses primarily on the operation of earth's systems upon which humans depend; cultural geography examines how humans live on the earth: how we modify the landscape, organize space, move about, use resources, and create

## **Associate Degrees for Transfer**

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students are required to:

- Complete 60 semester CSU-transferable units.
- Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- Complete a minimum of 18 semester units in the major
- Obtain of a minimum grade point average (GPA) of 2.0.
- Earn a grade of C or higher in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in major if the course is taken on a Pass/No Pass basis.

To view the most current list of College of Alameda Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www. alameda.peralta.edu. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

## **Career Opportunities**

Career Opportunities include but are not limited to: Aerial Photo Interpreter; Agricultural Geographer; Cartographer; Census Analyst; Climatologist; Community Development Specialist; Demographer; Development Specialist; Ecologist; Economic Development Analyst; Environmental Analyst/Planner; Geographical Information Systems Specialist; Map Curator; Natural Resources Manager; Park Ranger Wording in Current CoA Catalog: Skills learned in the study of geography are useful in many rewarding career paths. Urban planners design

livable environments in the city; environmental managers, employed by government agencies and private industry, work to conserve our natural resources; hydrologists manage increasingly scarce water resources; cartographers produce maps for both public and private employers; academic geographers teach at all levels in our educational system; geographic information system (GIS) specialists provide their technical expertise to assist in the planning of structures and projects; foresters, many employed by the National Forest Service or the US Department of Agriculture, manage millions of acres of precious woodlands; park rangers in state and national parks help to maintain the health and beauty of these places and share their knowledge through public information programs.

# **Program Learning Outcomes**

Upon successful completion of this program, students will be able to:

- Describe the spatial organization of the world's peoples, nations, cultural environments
- Demonstrate knowledge of global physical and environmental processes and develop an appreciation of landscapes.
- Demonstrate an understanding of how human activities impact the physical environment.

# **Geography** ASSOCIATE OF ARTS FOR TRANSFER

# **Degree Major Requirements**

	TITLE	UNITS
Major Require	ements (7 units)	
GEOG 1	Physical Geography	3
GEOG 1L	Physical Geography Laboratory	1
GEOG 2	Cultural Geography	
GEOG 3	<b>or</b> World Regional Geography	3
List A: Select	2 courses from the following: (6-7	units)
GEOG 14	Introduction to Geographic Information Systems (4)	
GEOG 15	Introduction to Weather and Climate (3)	6-7
GEOG 18	California Geography (3)	
	st A course or Major Requirement of sed and/or choose 1-2 courses from	
GEOL 3	Historical Geology (3)	
GEOL 3 GEOL 10	Historical Geology (3)	
	Historical Geology (3) Introduction to Geology (3) Introduction to Social and Cultural Anthropology (3)	6
GEOL 10	Introduction to Geology (3) Introduction to Social and	•
GEOL 10 ANTHR 3	Introduction to Geology (3) Introduction to Social and Cultural Anthropology (3)	: 19-20

# Geography (GEOG)

What is Geography? Humans have long pondered their place in the natural world, recognizing both the challenges and opportunities afforded them by the environment and, more recently, the effects of human activities in modifying that environment. This interplay of natural systems and human societies is the subject of the field of geography. Physical Geography focuses primarily on the operation of earth's systems upon which humans depend; Cultural Geography examines how humans live on the earth: how we modify the landscape, organize space, move about, use resources, and create the economies that sustain us.

Skills learned in the study of Geography are useful in many rewarding career paths. Urban planners design livable environments in the city; environmental managers, employed by government agencies and private industry, work to conserve our natural resources; hydrologists manage increasingly scarce water resources; cartographers produce maps for both public and private employers; academic geographers teach at all levels in our educational system; geographic information system (GIS) specialists provide their technical expertise to assist in the planning of structures and projects; foresters, many employed by the National Forest Service or the US Department of Agriculture, manage millions of acres of precious woodlands; park rangers in state and national parks help to maintain the health and beauty of these places and share their knowledge through public information programs.

The College of Alameda Geography program recognizes this and takes an integrated, system-based approach to the study of natural processes, sometimes called earth system science. This stress upon the interactions of various components of our system is especially valuable in today's rapidly changing environment.

**Field trips.** Local and/or long-distance, overnight field trip and field research opportunities may be included in some courses. Students must pay own expenses.

#### GEOG 1

## Physical Geography

- 3 units, 3 hours lecture (GR)
- Acceptable for credit: CSU, UC

Basic elements of the earth's physical systems and processes: Earth-sun relations, weather, climate, water, plate tectonics, landforms, soils, and ecosystems and their interrelationships and global distribution patterns. 2206.00

AA/AS area 1; CSU area B1; IGETC area 5A

#### **GEOG 1L**

## Physical Geography Laboratory

- 1 unit, 3 hours laboratory (GR)
- Prerequisite or corequisite: GEOG 1
- Acceptable for credit: CSU, UC

Practical application of basic concepts and principles of physical geography: Earth-sun relationships, weather, climate, geologic processes, landforms, and field observation. 2206.00

CSU area B3; IGETC area 5C

#### GEOG 2

## **Cultural Geography**

- 3 units, 3 hours lecture (GR)
- · Acceptable for credit: CSU, UC

Basic elements of cultural geography: Interrelationships of people and the land, including study of populations, cultural origins, migration, language and religion, ethnicity, systems of agriculture, urbanization, political units, economic organization and resource exploitation. 2206.00

AA/AS area 2; CSU area D; IGETC area 4 C-ID GEOG 120

#### GEOG 3

## World Regional Geography

- 3 units, 3 hours lecture (GR)
- Acceptable for Credit: CSU, UC

Introduction to the world's major geographic regions: Interconnections between regions, cultural and economic development, political organization, land uses, and the environment. 2206.00

AA/AS area 2; CSU area D; IGETC area 4

#### **GEOG 14**

## Introduction to Geographic Information Systems

- 4 units, 3 hours lecture, 3 hours laboratory
- Acceptable for Credit: CSU, UC

Study of Geographic Information Systems (GIS) science and its applications to spatial data management: Identification and acquisition of GIS data; assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS); spatial analysis and modeling with GIS. 1901.00

AA/AS area 1; CSU area B1, B3

C-ID GEOG 155

#### **GEOG 15**

## Introduction to Weather and Climate

• 3 units, 3 hours lecture (GR or P/NP)

Introduction to the Earth's atmosphere: Atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, weather forecasting, climate and climate change. 2206.00

#### **GEOG 18**

## California Geography

• 3 units, 3 hours lecture (GR or P/NP)

Forces, processes, and systems that shape the geography of California: Landforms, natural vegetation, forestry and fishing, mineral and water resources, cultural landscapes, agriculture, demographic changes, ethnic diversity, urban growth, regional differences, economic development and its national impact; natural hazards such as earthquakes and volcanism, floods, landslides and wildfires; climate and effects of climate change. 2206.00

#### **GEOG 48CR**

## **Geography Field Studies Abroad**

- .5-5 units, 1.5-9 hours laboratory
- Acceptable for Credit: CSU

Geography field studies abroad: Physical geography and physical processes producing it, such as volcanism, mountain building, ecosystems and biomes of other regions; cultural geography of language, indigenous peoples, land use practices, ecotourism projects and environmental conservation efforts. 2206.00

#### **GEOG 49**

## Independent Study in Geography

- .5-5 units, .5-5 hours lecture (GR)
- Acceptable for credit: CSU

In-depth exploration of an area or problem of the student's choice not covered by regular catalog offerings in Geography. Student must obtain approval from an appropriate faculty member. For more details, see the section on independent study in the college catalog. 2206.00