

GEOGRAPHY

Human Arts and Social Sciences Division

Paul Harvell, Division Dean

Division Office, Room 420

Michael Pebworth, Department Chair, (831) 477-3577

Deirdre Scholar, Program Contact, (831) 479-6346

Aptos Counseling: (831) 479-6274 for appointment

Watsonville Counseling: (831) 786-4734

Call (831) 479-6297 for more information

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Associate Degree
for Transfer
A Degree with a Guarantee.™

Geography A.A.-T Transfer Degree

The word Geography comes from ancient Greek language and means “to describe or write about the Earth.” Geography studies Earth’s natural and cultural systems, integrating data from the physical sciences, social sciences and humanities. Geographers make maps and use maps as tools for understanding how places differ from one another and for interpreting and explaining Earth’s landscapes, peoples, places, and environments.

Geographic studies are critical for understanding the international-global arena; past, present, and future. A degree in geography provides excellent opportunities for careers with city, county, and state governments in geographic information systems (GIS), urban planning, land use management, and environmental consulting. On a national level, many geographers are employed at the United States Geological Survey’s national mapping program. Geographers with advanced degrees may find positions in research or college-level teaching. The Geography department offers courses that serve as a basis for broad liberal education and for upper-division study in Geography and Earth Sciences. Cabrillo offers options for degrees in Geography.

The first option listed below is the Associate in Arts in Geography for Transfer (A.A.-T in Geography), which is intended for students who plan to transfer and complete a bachelor’s degree in Geography or a similar major at a CSU campus. Students completing the Associate in Arts in Geography for Transfer (A.A.- T in Geography) are guaranteed admission to the CSU system, but not to a particular campus or major. This Associate in Arts in Geography for Transfer (A.A.- T in Geography) may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

See Associate Degree for Transfer information in the Cabrillo College *Catalog*. The following is required for all A.A.-T or A.S.-T degrees:

- Completion of 60 CSU-transferable semester units.
- Minimum grade-point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA.
- Completion of a minimum of 18 semester units in the major with a letter grade of “C” or better, or a “P” if the course is taken on a “Pass/No Pass” basis.

- Certified completion of the California State University General Education- Breadth pattern (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Learning Outcomes

The Cabrillo College Core Competencies (with an emphasis in the study of Geography):

1. Demonstrate and analyze global, regional, and local geographic distribution patterns of natural resources and human populations in the physical and social worlds.
2. Utilize technological tools to collect, analyze, and interpret geographic data.
3. Explain the spatial connectivity between human societies and environments on local, regional, and global scales.
4. Communicate an awareness of environmental and social diversity, human-environmental interaction, and human impacts on natural systems affecting future generations.

CSU or IGETC for CSU General Education Requirements 37-39 Units Core (7 Units)

GEOG 1	Physical Geography	3
GEOG 1L	Physical Geography Laboratory.....	1
GEOG 2	Cultural Geography.....	3

List A-Select 6 units from: Units

GEOG 3	Introduction to Weather and Climate.....	3
GEOG 4	World Regional Geography	3
GEOG 5	California Geography	3
GEOG 17	Introduction to Geographic Information Systems and Techniques.....	3

List B-Select 6 units from: Units

ANTHR 1 or ANTHR 1H	Introduction to Anthropology: Biological	3
	Honors Introduction to Anthropology: Biological.....	3
	Introduction to Anthropology: Cultural	3
ANTHR 2 or ANTHR 2H	Honors Introduction to Anthropology: Cultural.....	3
ANTHR 3	Introduction to Anthropology: Archaeology	3
FR 3	Intermediate French I.....	5
GEOG 3L	Weather and Climate Laboratory.....	1
GEOL 10	Physical Geology.....	4
GEOL 20	Historical Geology	4
HORT 2	Soil Science and Management.....	4
ITAL 3	Intermediate Italian I	5
MATH 12 or MATH 12H	Elementary Statistics	5
	Honors Elementary Statistics	5
or PSYCH 2A	Statistics for Behavioral Sciences.....	3
OCEAN 10	Introduction to Oceanography.....	4
PS 3	International Relations	3
SPAN 3	Intermediate Spanish I.....	5
SPAN 4 or	Intermediate Spanish II	5

Any lower-division major preparation course articulated to the Similar Major at a CSU

Note: All courses are also general education courses.

Total Units **60**

Geography A.A. Degree

Model Program

An Associate Degree requires 60 units appropriate to your educational goal, to include general education and at least 18 units in a major. Courses should be selected to meet the lower-division major preparation requirements at your intended transfer university - these specific requirements can be found at www.assist.org for 4-year public institutions in California. Please see a counselor for advisement to ensure you are taking the best possible courses given your goal.

The department presents the following suggested model program for this major. The courses listed below may or may not be appropriate depending on your specific goal. Please see a counselor for advisement for transfer to any 4-year institution.

Learning Outcomes

The Cabrillo College Core Competencies (with an emphasis in the study of Geography):

1. Demonstrate and analyze global, regional, and local geographic distribution patterns of natural resources and human populations in the physical and social worlds.
2. Utilize technological tools to collect, analyze, and interpret geographic data.
3. Explain the spatial connectivity between human societies and environments on local, regional, and global scales.
4. Communicate an awareness of environmental and social diversity, human-environmental interaction, and human impacts on natural systems affecting future generations.

A.A. General Education		30 Units
Core Courses (19 Units)		Units
GEOG 1	Physical Geography	3
GEOG 1L	Physical Geography Laboratory.....	1
GEOG 2	Cultural Geography.....	3
GEOG 3	Introduction to Weather and Climate.....	3
GEOG 4	World Regional Geography	3
GEOG 5	California Geography	3
GEOG 17	Introduction to Geographic Information Systems and Techniques.....	3
Recommended Electives or any Course Numbered 1-99 (11 Units)		Units
ANTHR 2	Introduction to Anthropology: Cultural	3
or		
ANTHR 2H	Honors Introduction to Anthropology: Cultural	3
ANTHR 7	Peoples and Cultures of Non-Western Tradition: North America	3
ANTHR 17	Global Perspectives of Food and Culture.....	3
ES 10	Introduction to Environmental Science	3
GEOG 3L	Weather and Climate Laboratory	1
GEOL 15	Environmental Geology	3
GEOL 20	Historical Geology	4
HIST 24	History of California	3
MATH 12	Elementary Statistics	5
or		
MATH 12H	Honors Elementary Statistics	5
OCEAN 10	Introduction to Oceanography.....	4
Or any course numbered 1-99		0 - 11
Total Units		60

Geography Courses

GEOG 1 Physical Geography

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Studies Earth's dynamic physical systems and processes, including Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasizes interrelationships between human and environmental systems. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC. C-ID: GEOG 110

GEOG 1L Physical Geography Laboratory

1 unit; 3 hours Laboratory

Hybrid Requisite: Completion of or concurrent enrollment in GEOG 1.

Eligibility for MATH 154.

Repeatability: May be taken a total of 1 time.

Provides experiments and exercises relating to topics presented in GEOG 1-Physical Geography, including maps and mapping, the seasons, weather, geomorphology, and location drills.

Transfer Credit: Transfers to CSU; UC. C-ID: GEOG 111

GEOG 2 Cultural Geography

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Introduces the cultural geographic landscape including diverse human populations, their origins, diffusion, and current distributions. Examines demography, social customs, languages, religions, political units and nationalism, economic systems and development, urban systems, and environmental impacts. May be offered in Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC. C-ID: GEOG 120

GEOG 3 Introduction to Weather and Climate

3 units; 3 hours Lecture

Recommended Preparation: Eligibility for Math 154.

Repeatability: May be taken a total of 1 time.

Introduces Earth's atmosphere. Topics include: 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, and climate and climate change. May be offered in Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC.

GEOG 3L Weather and Climate Lab

1 unit; 3 hours Laboratory

Hybrid Requisite: Completion of or concurrent enrollment in GEOG 3.

Emphasizes the nature and causes of weather and climate using exercises, weather data, and hands-on instrument use. May be offered in Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC.

GEOG 4 World Regional Geography

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Surveys the world's geographic regions as interpreted by geographers, including physical, cultural, and economic features. Emphasizes spatial and historical influences on population growth, states and natural environments. Highlights environmental issues and significant features of world regions.

Transfer Credit: Transfers to CSU; UC. C-ID: GEOG 125

GEOG 5 California Geography

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Explores the physical and human landscapes of California and the development of the state as a result of human interactions with the environment. Topics relevant to the state's development and to geography are explored including: climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC C-ID: GEOG 140

GEOG 17 Introduction to Geographic Information Systems and Techniques

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Studies 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. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC. C-ID: GEOG 155

GEOLOGY

Natural and Applied Sciences Division

Dave Reynolds, Division Dean

Division Office, Room 701

David Schwartz, Department Chair, (831) 479-6495

Aptos Counseling: (831) 479-6274 for appointment

Watsonville Counseling: (831) 786-4734

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**Associate Degree
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Geology A.S. -T Degree

Geology is the study of Earth materials and processes. The student with a transferable Associate in Science Degree in Geology is prepared to transfer into upper-division work in the major at four-year institutions and pursue a Bachelor's degree or graduate degree. The major is available at UC and CSU systems, and at other colleges and universities. A masters or Ph.D. in this field will enable the graduate to pursue a wide variety of fields such as research, academia, engineering/consulting, geohydrology, seismology, volcanology, geophysics, glaciology, and economic geology (ore and hydrocarbon deposits).

Cabrillo offers options for degrees in Geology. The first option listed below is the Associate in Science in Geology for Transfer (A.S.-T) which is intended for students who plan to transfer and complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees are guaranteed admission to the CSU system, but not to a particular campus or major. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU System. See Associate Degree for Transfer information in the Cabrillo College *Catalog*.

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Completion of a minimum of *18 semester units in the major with a grade of "C" or better, or a "P" if the course is taken on a "pass/no pass" basis. *Note: this degree requires greater than 18 units in the major for completion.

Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Learning Outcomes

The Cabrillo College Core Competencies (with an emphasis in the study of Geology):

1. Communication: Reading, Writing, Listening, Speaking, and/or Conversing.
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving.
3. Global Awareness: An appreciation of Scientific Processes, Global Systems and Civics, and Artistic Variety.