

# Geography

## Associates in Arts in Geography for Transfer (ADT: A.A.-T)

### Program Description

Solano Community College offers an Associate in Arts in Geography for Transfer degree to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The Associate in Arts in Geography for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Geography or similar major. The degree provides students with a foundation in the knowledge and skills of the Geography profession and prepares them for upper division university course work. Recipients of the Associate in Arts for Transfer degree are guaranteed admission with junior standing at a campus of the California State University system. The program in Geography is designed to develop the student's awareness of human environment relationships and changes in the physical and cultural landscape induced by human activities.

### Associates in Arts in Geography for Transfer

The Associate in Arts in Geography for Transfer degree is especially designed for students who plan to complete a bachelor's degree in Geography at a CSU campus. Students completing an Associate in Arts in Geography for Transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in Geography for Transfer degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

The Associate in Arts in Geography for Transfer degree, which aligns with the Geography TMC, will prepare students for a baccalaureate degree in Geography at a CSU institution. Geography provides insights about the earth as the human habitat. It is a way of looking at the earth, not an inventory of its contents. This viewpoint rests on fundamental interlocking concepts. The cultural appraisal of the earth, the regional concept, areal coherence, human ecology, spatial interaction, study of landscape, and the concept of change are all ways the geographer tries to better understand the environment.

### To earn the Associate in Arts in Geography for Transfer degree, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
  - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

### Program Outcomes

Students who complete the Associate in Arts in Geography for Transfer degree will be able to:

1. Use maps and other appropriate geographic tools to interpret and analyze spatial data.
2. Explain the impact of humans on the natural environment.
3. Identify major worldwide spatial political, cultural, economic, and environmental patterns.

<b>REQUIRED COURSES</b> .....	<b>Units</b>
GEOG 001 Physical Geography .....	3
GEOG 001L Physical Geography Laboratory .....	1
GEOG 002 Cultural Geography .....	3
Two to three courses from List A .....	6-9
Two courses from List B .....	6

<b>List A</b> (Select 6-9 units).....	<b>Units</b>
GEOG 004 World Geography .....	3
GEOG 006 California Geography .....	3
GEOG 010 Introduction to Geographic Information Systems .....	3

<b>List B</b> (Select 6 units) .....	<b>Units</b>
ANTH 002 Cultural Anthropology .....	3
GEOL 001 Physical Geology .....	3
Any course from List A not already used .....	3
<b>Required Major Total Units</b> .....	<b>19-22</b>
<b>CSU General Education or iGETC Pattern Units</b> ..	<b>37 - 39</b>
<b>CSU Transferable Electives</b> (as needed to reach 60 transferable units)* .....	<b>15 - 17</b>
<b>Total Degree units</b> .....	<b>60</b>

\* 13 units may be double counted toward both the major area of  
Consult with a counselor for more information.

# Geography

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**GEOG 001****Physical Geography**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.* This course is a spatial study of the Earth's dynamic physical systems and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasis is on the interrelationships among environmental and human systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Field trips may be required. C-ID GEOG 110. *Three hours lecture.*

**3.0 Units****GEOG 001L****Physical Geography Laboratory**

*Prerequisite: GEOG 001 with a minimum grade of C (may be taken concurrently).* Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard. This course is designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. One or more field trips are required and may occur outside of class time. C-ID GEOG 111. *Three hours lab.*

**1.0 Units****GEOG 002****Cultural Geography**

*Course Advisory: Eligibility for English 001.* This course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Topics include: demography, languages and religions, urbanization and landscape modification, political units and nationalism, and economic systems and development. A field trip may be required. However, if the student cannot attend the field trip, there will be an optional research paper assignment. C-ID GEOG 120. *Three hours lecture.*

**3.0 Units****GEOG 004****World Geography**

*Course Advisory: Eligibility for ENGL 001.* Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. A field trip may be required with the course. However, if a student cannot attend the trip, there will be an optional research paper assignment. C-ID GEOG 125. *Three hours lecture.*

**3.0 Units****GEOG 006****California Geography**

*Course Advisory: Eligibility for ENGL 001.* A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical, and human landscapes that have evolved as a result of the human-environment interface. A field trip is required. C-ID GEOG 140. *Three lecture hours.*

**3.0 Units****GEOG 010****Introduction to Geographic Information Systems**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.* Basic computer literacy is desirable. 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. Same course as GEOL 010. Not open to students who have completed GEOL 010. Field trips may be required. C-ID GEOG 155. *Three hours lecture.*

**3.0 Units**

# Geology

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**GEOL 001****3.0 Units****Physical Geology**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standard.* An introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. Online work may be required. C-ID GEOL 100. *Three hours lecture.*

**GEOL 002****1.0 Units****Geology Laboratory**

*Prerequisite: A minimum grade of C in either GEOL 001 or GEOL 005 (either course may be taken concurrently). Course Advisory: SCC minimum Math standard and Eligibility for ENGL 001.* Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. C-ID GEOL 100L. *Three hours lab.*

**GEOL 005****3.0 Units****Geology of California**

*Course Advisory: GEOL 001 with minimum grade of C, Eligibility for ENGL 001 and SCC minimum math standard.* An introduction to the geology of California, including tectonic processes, geologic structures, physiographic provinces, local rocks and minerals, landforms, natural resources, geologic history, and natural hazards in the state. Field trip will be taken to areas of geologic interest. A field trip report will be required. If the student cannot attend the trip, they will have a make-up work. *Three hours lecture.*

**GEOL 010****3.0 Units****Introduction to Geographic Information Systems**

*Course Advisory: Eligibility for ENGL 001 and SCC minimum Math standards.* 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. Same course as GEOG 010. Not open to students who have completed GEOG 010. C-ID GEOL 155. *Three hours lecture.*

**GEOL 049****1.0 to 3.0 Units****Geology Honors**

*Prerequisite: Completion of 24 units of college credit with a minimum GPA of 3.0; completion of GEOL 001, GEOL 005, or GEOL 010 with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability.* *Course Advisory: Eligibility for ENGL 001.* Requires students to engage in an independent student project. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. This project requires the approval of a faculty member sponsor. Students may take this course up to the maximum number of units over multiple semesters. *Three to nine hours by arrangement.*