

GEOLOGY

GEOLOGY ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

About the Program

The Las Positas College Geology program offers courses that lead to an Associate in Science in Geology for Transfer degree. The major requirements for the Associate in Science in Geology for Transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Geology. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Career Opportunities

Geologic specialties include geologic mapping, earthquakes and seismology, vulcanology, hydrology, earth resources and acquisition/use impacts (e.g., pollution and deforestation), paleontology, glaciology, petrology and mineralogy, mass wasting (landslides and slope stability), marine geology (e.g., beaches), paleoclimatology, soil science, extra-terrestrial geology (the geology of other planets), etc. Geologists typically work in the fields of geologic planning and/or hazard evaluation or in the fields of environmental sciences and/or environmental studies, and/or for engineering companies, or for mining companies, or for various research universities or laboratories (e.g., Sandia or LLNL), or for different governmental offices such as the USGS (United States Geological Survey), CGS (California Geological Survey), NOAA (National Atmospheric and Oceanic Administration), NASA, EPA, US Army Corps of Engineers, etc.

Program Outcomes

Upon completion of this program, students are able to:

- Demonstrate proficiency in basic earth processes (e.g., plate tectonics).
- Demonstrate proficiency in the evaluation and identification of basic earth materials (e.g., rocks and minerals).

Learning and Career Pathway Maps

[View Program Pathway Map](#)

Completion Requirements:

1. Completion of 60 semester units or 90 quarter 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 CA 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. Obtainment of a minimum grade point average of 2.0.

Associate Degrees for Transfer (ADT's) also require that students must earn a "C" (or "P") or better in all courses required for the major or area of emphasis.

Required Core: (28 Units)

Prefix	#	Title	Units
CHEM	1A	General College Chemistry I	5
CHEM	1B	General College Chemistry II	5
GEOL	1	Physical Geology	3
GEOL	1L	Physical Geology Laboratory	1
GEOL	2	Historical Geology	4
MATH	1	Calculus I	5
MATH	2	Calculus II	5

Total Units for the Major: 28

Additional General Education and Elective Units: 32

Total Units: 60

See the Las Positas College California General Education Transfer Curriculum (Cal-GETC) pattern for a listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program and the optional course(s) taken. Elective units must be CSU transferable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.