

# GEOLOGY FOR TRANSFER (AS-T)

## PROGRAM DESCRIPTION:

The Geology Associate in Science for Transfer is unique among the sciences; Geology is the study of the earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics and mathematics. Its goals are to study rocks, minerals, fossils, and energy and water resources, and to understand geologic principles and processes that shape the earth and its environments.

Specialized geological studies apply information and techniques from other sciences and engineering to solve problems of the physical environment. Examples of geological specialties include the following: paleontology, the study of prehistoric biology; mineralogy, the application of chemistry and physics to the mineral kingdom; petrology, the application of chemistry and physics to understanding the origin and history of rocks; engineering geology, the application of geological and engineering information to construction of roads, dams, tunnels, landslide stabilization, etc.; and hydrology, the study of surface and underground water supplies.

The program is suited to the needs of students who will complete their education at Chaffey College with an Associate in Science degree, as well as those students who will complete their Chaffey Associate in Science degree and transfer to a four year institution to complete their bachelor's degree. Successful completion of the transfer degree in Geology guarantees the student acceptance to a California State University (*but does not guarantee acceptance to a particular campus or major*) to pursue a baccalaureate degree, in preparation to pursue a career in the fields of civil engineering, drafting, engineering management, geography education, petrology, physical geology, environmental geology, invertebrate paleontology, oceanography, geophysics, hydrology and seismology. Geology majors continue to find employment searching for new oil and gas reserves and mineral deposits but they also work with federal, state, and local agencies to develop ecologically sound environmental policies. Many geologists are involved in estimating the extent of land, water and mineral resources as well as determining potential hazards from earthquakes, landslides, floods, and volcanoes.

## CAREER AT A GLANCE:

### HOW DO I KNOW IF THIS MAJOR IS FOR ME?

- You are interested in learning about the physical environment
- You want to work outdoors and in various environments
- You like to collect, record and analyze data
- You enjoy reading maps, charts and diagrams
- You are good at identifying problems and developing solutions
- You are careful with data and detail oriented

*Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.*

### WHERE CAN I WORK?

Mining Companies	Bureau of Land Management
County Departments	Private Industry
City/County Offices	Schools and Colleges
Federal/State Government	Non-Profit Organizations
Technology Companies	Construction Companies

*For more information visit: [www.labormarketinfo.edd.ca.gov/OccGuides](http://www.labormarketinfo.edd.ca.gov/OccGuides)*

### HOW DO I GET STARTED?

- Start taking introductory geology courses
- Apply for entry level positions in reception, data entry, or customer service with employers where you would like to promote
- Job shadow and conduct informational interviews with professionals in positions you wish to obtain in the future
- Volunteer in schools or other research labs
- Attend university campus tours and visit the Transfer Center to decide where you want to transfer

### WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?

<i>Position Title</i>	<i>CA Median Salary</i>
Geological Sample Assistant	\$30,170
Recreation Leader	\$27,290
Land-Use Technician	\$53,019
Mapping Assistant	\$63,670
Forest/Conservation Technician	\$63,670
Surveying Technician	\$63,670
Camp Counselor	\$25,060
Travel Guide	\$30,170

### WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?

<i>Position Title</i>	<i>CA Median Salary</i>
Geoscientist	\$90,200
Geology Professor	\$93,980
Hydrologist	\$101,230
Natural Scientist Manager	\$138,190
Environmental Scientist	\$81,680
Water Resource Specialist	\$138,190
Wastewater Engineer	\$102,110
Resource Conservation Scientist	\$73,700
Geophysical Data Technician	\$51,150
Soil and Water Conservationist	\$73,700
Land Surveyor	\$91,090
Geological Engineer	\$132,020

*For more information about careers, education and training requirements, salary data, and job outlooks visit [www.onetonline.org](http://www.onetonline.org).*

# GEOLOGY FOR TRANSFER (AS-T)

**MAJOR AND COURSE REQUIREMENTS:**

To obtain the Geology AS-T degree, students must:

- Complete all the major requirements listed below with grades of C or better.
- Complete a minimum of 60 CSU-transferable units listed with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

**LEGEND:** G=Grade    IP=In Progress    N=Need    **Bold: Prerequisites**    Plain Text: No Prerequisites    \*: Corequisite

<i>Major Requirements for the Associate in Science for Transfer Degree: (S221A/B)</i>		Grade	IP	Need	Units
<b>CHEM 24A</b>	<b>General Chemistry I</b>				5
<b>CHEM 24B</b>	<b>General Chemistry II</b>				5
GEOL 1	Physical Geology				4
GEOL 2	Historical Geology				4
<b>MATH 65A</b>	<b>Calculus I</b>				4
<b>MATH 65B</b>	<b>Calculus II</b>				4

Student Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor: \_\_\_\_\_

**Units for the major: 26**

	IGETC	CSU
General Education	37	39
Total units that may be double counted	7	7
Elective (CSU transferable) units	4	2
	60	60

<b>COUNSELOR NOTES:</b>

\$46 per unit for CA Residents
--------------------------------