

# DEGREES, CERTIFICATES, AND TRANSFER PREPARATION INFORMATION

## GEOLOGY

Geologists study the origin, history, composition, and structure of the earth, both for scientific knowledge and for practical purposes such as locating oil, minerals, and other raw materials; and for compiling architectural safety reports, maps, and diagrams. They use knowledge of chemistry, physics, math, and biology, to analyze the data and specimens. Some possible career choices are found in the environmental consulting industry, pollution remediation, public policy and environmental law. Career titles include meteorologist, oceanographer, seismologist, soil scientist, structural geologist and teacher.

### Programs Offered

- Transfer Preparation
- Associate Degree for Transfer
  - Geology
- *See also Science: General Science*

### Catalog Rights

A student may satisfy the requirements of a degree that were in effect at any time of the student's **continuous** enrollment. Continuous enrollment means attendance in at least one semester (Fall or Spring) in each academic year.

### Transfer Preparation

Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at [assist.org](http://assist.org).

A listing of private, nonprofit California colleges and universities can be found online at [aiccu.edu](http://aiccu.edu). For articulation agreements between SMC and some of these institutions see [smc.edu/articulation](http://smc.edu/articulation).

SMC offers the **Geology Associate Degree for Transfer**. Students completing this degree are eligible for priority transfer admission consideration in the majors at many **California State University** campuses. In addition, students will be required to complete no more than 60 semester/90 quarter CSU units of coursework after transfer to complete the baccalaureate degree.

**NOTE: Students considering transfer to a UC, private, or out-of-state school should consult a counselor BEFORE applying to transfer, as the transfer requirements may be different from those required for the Geology AA-T.**

The most current list of CSU campuses accepting this Associate Degree for Transfer is available online at [calstate.edu/transfer/adt-search/search.shtml](http://calstate.edu/transfer/adt-search/search.shtml).

## Geology, Associate Degree for Transfer

The Associates of Science Transfer degree in Geology provides the foundation needed for students to transfer to a CSU with the lower division courses required to complete a bachelor's degree in a Geoscience major. Students will have the foundational math,

chemistry, and geology courses along with their IGETC requirements completed allowing the student to seamlessly transition to a CSU and complete their upper division courses.

- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of "C" (or "P") for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth

**Program Learning Outcomes:** Upon completion of the program, students will demonstrate an understanding of the history of the Earth including the timing and impact of the major epochs and how they impacted life on Earth. Upon completion of the program, students will demonstrate the ability to identify and classify Earth's materials and identify their chemical make up. Upon completion of the program, students will demonstrate an understanding of the geologic, biologic, and chemical processes that shape the Earth including the formation, weathering, and movement of rocks.

### Area of Emphasis: (28 Units)

#### Required Courses: (28 units)

CHEM 11, General Chemistry I (5)  
 CHEM 12, General Chemistry II (5)  
 GEOL 4, Physical Geology with Lab (4)  
 GEOL 5, Historical Geology with Lab (4)  
 MATH 7, Calculus 1 (5)  
 MATH 8, Calculus 2 (5)