

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

### Associate Degree in Geology for Transfer to the CSU

The Associate in Science for Transfer (AS-T) is designed to facilitate transfer admission to a CSU in a similar major. If you are considering transfer to a UC, private, or out-of-state school, consult a counselor regarding the transfer requirements of that institution.

Associate Degree for Transfer Requirements:

- completion of at least 60 CSU-transferable semester including:
    - completion of the Area of Emphasis with a grade of C or higher in each course or with a P if the course was taken on a Pass/No Pass basis, and the P is equal to a C or higher (Title 5 §55063)
    - completion of either CSU GE or IGETC; students transferring to CSU using IGETC must complete Area 1C (see [smc.edu/articulation](http://smc.edu/articulation) or visit the General Counseling and Transfer Services Center)
    - a minimum of 12 degree applicable semester units completed at SMC
    - a minimum overall GPA of 2.0 in all CSU-transferable units
- Note: while a minimum GPA of 2.0 is required for admission to a CSU, some majors/campuses may require a higher GPA. Please consult with a counselor for details.

### 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/art-search/search.shtml](http://calstate.edu/transfer/art-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.

**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)