



Geological Sciences A.S. Degree

Goals and Objectives

The Geological Sciences A.S. degree prepares students to transfer to CSU upon completion and provides them with the necessary background to succeed in upper-division geology courses.

Catalog Description

The Geological Sciences A.S. degree is designed to prepare students for transfer to a college or university with a goal of earning a bachelor's degree in Geology or a related discipline. 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, faults, landslides, soils, fossils, energy and water resources, and to understand geologic principles and processes that shape the Earth and its environments, and impact human society. Although the requirements are similar to the Geology Associate in Science for Transfer degree, this degree is specifically aligned with California State University Geology majors that require one semester of calculus (e.g., CSU San Bernardino) with a degree in geology with one semester of calculus.

Program Requirements

Major requirements for the Associate in Science Degree (AS):

Required Core: **Units: 26.0**

BIOL 1	General Biology	4.0
CHEM 24A	General Chemistry I	5.0
CHEM 24B	General Chemistry II	5.0
GEOL 1	Physical Geology	4.0
GEOL 2	Historical Geology	4.0
MATH 65A	Calculus I	4.0

This course is recommended, but not required:

PHYS 35	Calculus Based Physics I	4.0
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Total: 26.0

Course Sequencing

Master Planning

The Geological Sciences program advances Chaffey College's mission by preparing students for transfer and careers that strengthen economic and social mobility in our community. The Geological Sciences program aligns with California's higher education priorities of equity, innovation and workforce preparation while expanding curriculum that supports transfer pathways. This program ensures that diverse students gain critical thinking skills in addition to the specific knowledge set required for transfer to a university geology major.

Annual Enrollment and Completer Projections

34

Place of Program in Curriculum/Similar Programs

The Geological Sciences A.S. degree is similar to the Geology AS-T degree except it only requires one Calculus course.

Similar Programs at Other Colleges in Service Area

None

Transfer Preparation

Local (Community Need)