

GEOLOGY, ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER (AS-T)

Financial Aid Eligible

Banner Code: 1_AST_GEOL

Control Number: 33569

Students graduating with an Associate in Science in Geology for Transfer Degree are well positioned to complete a Bachelor's Degree in a similar major within the California State University system with 60 units of upper-division coursework. Students who complete the Geology AS-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students must maintain a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum 2.0 is required for CSU admission, some majors may require a higher GPA. Please consult a counselor for more information.

The Associate in Science in Geology for transfer Degree focuses on an understanding of internal processes responsible for the formation of the Earth from a scientific perspective. Students choosing this degree program will study a range of natural science concepts including plate tectonics, climate change, and the evolution of the dynamic planet Earth. This degree employs the scientific method to understand the formation of the Earth, including how volcanoes and mountain building events change the geography and ecosystems of the Earth. Students will explore geologic time as it relates to the origins, and evolution of life through the fossil record.

An understanding of the formation of economically important mineral and fossil fuel resources is an important aspect of the degree program. Portions of the course work will focus on the diverse California geologic setting and coastal development. Completion of the Associate in Science in Geology for transfer Degree will provide students with a well-rounded understanding of human impacts on the globe and the ways geologic hazards such as earthquakes, floods, and landslides impact human development.

The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. It is strongly recommended that all geology majors take courses in physics and biology in addition to the degree requirements, but this cannot be included as a requirement due to unit limitations.

Program Outcomes

1. Apply the scientific method to solve geological problems.
2. Summarize geologic time, explain the geologic time scale and its scientific basis, recount the milestone events in Earth history, and understand the basics of common dating methods.
3. Express the role of the geology in everyday life, appreciate the extent of human impact on Earth systems and environments, and understand the processes that create natural hazards, and the strategies that minimize their impact on society.
4. Students will be eligible and prepared for admission (SB 1440 and Education Code 66746) to California State University system schools.

Associate Degree for Transfer Requirements

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum GPA of at least 2.0 in all CSU transferable coursework. While a minimum of 2.0 is required for admission, some majors require a higher GPA. Consult with a counselor for more information.
3. Completion of a minimum of 18-semester units in the major as detailed in the Degree and Certificate section of this catalog. All courses in the major must be completed with a grade of C or better.
4. Certified completion of the California State University General Education-Breadth pattern (CSU General Education Breadth – Option 2 (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-2/>)) OR the Intersegmental General Education Transfer Curriculum (IGETC – Option 3 (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>)).

Course	Title	Units
Core Courses		
GEOL A110	Physical Geology	4
GEOL A185	Evolution of the Earth	3
GEOL A185L	Evolution of the Earth Lab	1
CHEM A180	General Chemistry A	5
CHEM A185	General Chemistry B	5
MATH A180/A180H	Calculus 1	4
MATH A185/A185H	Calculus 2	4
Program Major Units		26
CSU or IGETC for CSU		37-39
Transferable electives as needed to satisfy unit requirement		Varies
Total Units		60