

GEOLOGY, ASSOCIATE IN SCIENCE FOR TRANSFER

Geology is an exciting and challenging major for students with broad scientific interests and a love for natural systems, our environment, and our planet's history. Geology is a multi-disciplinary science that applies chemistry, biology, physics, oceanography, mathematics, and engineering to the natural world around us. The rich variety of its fields of study includes oceanography, paleontology, geophysics, hydrogeology, geochemistry, engineering geology, environmental geology and more. Geology majors apply their skills and knowledge to solve complex problems related to human interaction with natural systems, hazards and resources, and to communicate these solutions and options to the public.

The Associate in Science in Geology for Transfer (Geology AS-T) is intended for students who plan to complete a bachelor's degree in Geology, Earth Science, or "similar" major at a CSU campus. For a current list of what majors (and what options or areas of emphasis within that major) have been designated as "similar" to this degree at each CSU campus, please refer to CSU's Associate Degree for Transfer Major and Campus Search (<https://www.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx>) webpage and seek guidance from an Oxnard College counselor. Students completing this degree are guaranteed admission to the CSU system, although not necessarily to a particular CSU campus or major.

To earn an AS-T in Geology, students must:

- Complete a minimum of 60 CSU-transferable semester units including both of the following:
 - Certified completion of the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth (CSU GE-Breadth) requirements.
 - A minimum of 28 semester units in the Geology major as listed in the Oxnard College catalog.
- Obtain a minimum grade point average (GPA) of 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
- Obtain a grade of "C" or better or "P" in all courses required in the major. Even though a "pass-no-pass" is allowed (Title 5 section 55063), it is highly recommended that students complete their major courses with a letter grade.
- Complete requirements in residency. For students in the Ventura County Community College District, a minimum of 12 units must be completed in residence at the college granting the degree.

Students transferring to a CSU campus that accepts the Geology AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major at a particular campus). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Course ID	Title	Units/ Hours
Required Core Courses		
GEOL R101 & GEOG R101L	Physical Geology and Physical Geography Laboratory	4
GEOL R114 & R114L	Historical Geology and Historical Geology Laboratory	4
CHEM R120	General Chemistry I	5
CHEM R122	General Chemistry II	5
MATH R120	Calculus with Analytic Geometry I	5
MATH R121	Calculus with Analytic Geometry II	5
Total Required Major Units		28
CSU GE-Breadth		39
Double-Counted Units		- 7
Free Electives Required		0
Total Units Required for AS-T Degree		60
IGETC		37
Double-Counted Units		- 7
Free Electives Required		1
Total Units Required for AS-T Degree		60

Upon successful completion of this program, students will be able to:

- Apply the scientific method to solve earth science problems such as determining the age of the Earth or determining the origin of the oceans.
- Acquire knowledge and skills sufficient to allow one to pursue advanced study in earth science or find employment in earth science related fields.
- Apply general math skills such as unit conversion, ratios and percentages to solving simple rate problems; evaluate data, produce and interpret tables and graphs; apply the metric system of measurement.
- Demonstrate scientific literacy by defining and explaining the major steps in the scientific method of investigation, specifically, the difference between empirical data, interpretation, testable hypothesis, theory, paradigm, speculation, and pseudo-science.
- Display written competency in the description and analysis of earth science subject matter.
- Identify, research, evaluate and integrate scholarly literature within the discipline.
- List and categorize common natural resources and explain their origin, spatial distribution, appropriate exploration methods, and the resulting products, wastes, and contaminants.
- List, explain, and evaluate global and local earth science hazards such as earthquakes, volcanoes, landslides, and seismic sea waves.
- Recognize applications of earth science in everyday life.