



Geology Associate of Science-Transfer Degree

Geology is the study of the origin and evolution of the earth, utilizing the principles of mathematics, chemistry, physics and biology. The concept of geologic time and the principles of uniformitarianism help geologists to understand the processes that shape the earth and its environments. Geologists study rocks, minerals and fossils in an effort to draw conclusions about both the earth's observable surface processes that meet the eye, and the earth's interior.

SUGGESTED PROGRAM COURSE SCHEDULE

SEMESTER 1

16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
GEOL 300 Physical Geology	3	Co-req: GEOL 301	F, S	CSU Area B1
GEOL 301 Phys Geol Lab	1	Co- or Prereq: GEOL 300	F, S	CSU Area B3
CHEM 300 Beg Chemistry	4	MATH 100	F, S, Su	CSU Area B1
MATH 335 Trigonometry w/ College Algebra	5	MATH 120	F, S, Su	CSU Area B4
CSU Area A2 Written Communications	3	Recommend meeting with a counselor	F, S, Su	CSU Area A2

SEMESTER 2

17 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
GEOL 310 Historical Geol	3	Advisory: GEOL 300 or 305	Su	CSU Area B2
GEOL 311 Historical Geol Lab	1	Co-req: GEOL 310; Advisory: GEOL 300 & 301	Su	CSU Area B3
CHEM 400 General Chem I	5	CHEM 300 or 1 yr of HS Chem + lab & MATH 120	F, S, Su	CSU Area B1
MATH 370 Pre-Calc Mathematics	5	MATH 335	F, S	CSU Area B4
CSU Area A3 Critical Thinking Or taken in summer	3		F, S, Su	CSU Area A3

[^]You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (H) = hybrid available

Career Options/Outlook:

Geological Sample Test Technicians test or analyze geological samples, crude oil, or minerals to detect presence of petroleum, gas, or mineral deposits indicating potential for exploration or production or to determine physical or chemical properties to ensure that products meet quality standards.

Career opportunities require more than two years of college study.

A sample of reported job titles:

Core Inspector, Electron Microprobe Operator, Environmental Field Services Technician, Environmental Sampling Technician, Laboratory Technician, Materials Technician, Organic Section Technical Lead, Physical Science Technician, Quality Control Technician (QC Technician), Research Associate

Projected job opening in California (2016-2026):

150

Projected growth:

Much faster than average (15% +)

Salary in California:

Median wage (2017) with advanced degree: \$51,150/yr

Source: <https://www.onetonline.org/link/summary/19-4041.02>

SEMESTER 3

16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
CHEM 401 Gem Chem II	5	CHEM 400	F, S	CSU Area B1
MATH 400 Calculus I	5	MATH 370	F, S	CSU Area B4
CSU Area A1 Oral Communication Or taken in summer	3		F, S, Su	CSU Area A1
CSU Area C1 Arts Or taken in summer	3		F, S, Su	CSU Area C1

SEMESTER 4

14 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
MATH 401 Calculus II	5	MATH 400	F, S	CSU Area B4
CSU Area C2 Humanities Or taken in summer	3		F, S, Su	CSU Area C2
CSU Area B2 Life Science Or taken in summer	3		F, S, Su	CSU Area B2
CSU Area D Soc & Beh Sciences	3		F, S, Su	CSU Area D

SEMESTER 5

12-13 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
CSU Area D Soc & Beh Sciences	3		F, S, Su	CSU Area D Select a course that will also meet CSU Graduation Requirements
CSU Area C1 Arts or C2 Humanities	3-4		F, S, Su	CSU Area C1 or C2
CSU Area D Soc & Beh Sciences	3		F, S, Su	CSU Area D Select a course that will also meet CSU Graduation Requirements
CSU Area E Lifelong Learning & Self-Development	3		F, S, Su	CSU Area E

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*(O) = online available (H) = hybrid available

Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

General Education (GE):

Non-specified GE courses identified by CRC Area, CSU Area or IGETC Area without pre- or co-requisite can be taken at any semester.