



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

14 (19) UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
GEOL 300 Physical Geology	3	Co-req: GEOL 301	F, S	IGETC Area 5A
GEOL 301 Phys Geol Lab	1	Co- or Prereq: GEOL 300	F, S	IGETC Area 5A
CHEM 300 Beg Chemistry	4	MATH 100 or 120	F, S, Su	IGETC Area 5A
MATH 335 Trigonometry w/ College Algebra (if necessary)	(5)	MATH 110 or HS geometry & MATH 120	F, S, Su	
IGETC Area 1A English Composition	3	Recommend meeting with a counselor	F, S, Su	IGETC Area 1A
IGETC Area 3A Arts or 3B Humanities Or taken in summer	3		F, S, Su	IGETC Area 3A or 3B

SEMESTER 2

13 (18) UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
GEOL 310 Historical Geol	3	Advisory: GEOL 300 or 305	Su	IGETC Area 5A
GEOL 311 Historical Geol Lab	1	Co-req: GEOL 310; Advisory: GEOL 300 & 301	Su	IGETC Area 5A
CHEM 400 General Chem I	5	CHEM 300 or 1 yr of HS Chem + lab and MATH 120	F, S, Su	IGETC Area 5A or 5C
MATH 370 Pre-Calc Mathematics (if necessary)	(5)	MATH 335 or equivalent	F, S	IGETC Area 2
IGETC Area 1B Critical Thinking Or taken in summer	3		F, S, Su	IGETC Area 1B

[^]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 an associate's degree.

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>

GEOL AS-T Intersegmental General Education Transfer Curriculum, Univ. of Cal or Cal State Univ.

SEMESTER 3

16 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
CHEM 401 Gem Chem II	5	CHEM 400	F, S	IGETC Area 5A & 5A Lab
MATH 400 Calculus I	5	MATH 370	F, S	IGETC Area 2
IGETC Area 4 Soc & Beh Sciences Or taken in summer	3		F, S, Su	IGETC Area 4
IGETC Area 4 Soc & Beh Sciences Or taken in summer	3		F, S, Su	IGETC Area 4

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.

SEMESTER 4

24 UNITS

Course	Units	Pre-Reqs [^]	Semesters offered*	GE Area
MATH 401 Calculus II	5	MATH 400	F, S	IGETC Area 2
IGETC Area 1C Oral Communication Or taken in summer	3		F, S, Su	IGETC Area 1C
IGETC Area 3A Arts Or taken in summer	3		F, S, Su	IGETC Area 3A
IGETC Area 3B Humanities Or taken in summer	3		F, S, Su	IGETC Area 3B
IGETC Area 5B Biological Science Or taken in summer	3		F, S, Su	IGETC Area 5B
IGETC Area 4 Soc & Beh Sciences Or taken in summer	3		F, S, Su	IGETC Area 4
IGETC Area 6 Language Or taken in summer	4		F, S, Su	IGETC Area 6

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.

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