



This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

**Catalog:** 2025-26

**GE Pattern:** Cal-GETC

**Total Units:** 60

## First Year

### Semester 1

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	GEOL 300 Physical Geology	3		5A
Req	GEOL 301 Physical Geology Laboratory	1		5C
Req	MATH 400 Calculus I	5	through the placement process	2
GE	ENGL C1000 Academic Reading and Writing or	3		1A
	ENGL C1000H <sup>H</sup> Academic Reading and Writing - Honors	3		
GE	any Area 3B (Humanities) course	3		3B

### Semester 2

14 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 401 Calculus II	5	MATH 400	
GE	any Area 1B (Critical Thinking and Composition) course	3		1B
GE	any Area 3A (Arts) course	3		3A
GE	any Area 4 (Social & Behavioral Sciences) course (from 2 academic disciplines)	3		4

## Second Year

### Semester 3

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	GEOL 310 Historical Geology	3		
Req	GEOL 311 Historical Geology Laboratory	1		
Req	CHEM 400 General Chemistry I	5	(see below)	
GE	any Area 1C (Oral Communication) course	3		1C
Elec	any transferable elective course	3		

## TRANSFER PATH

### Potential Transfer Majors:

- Geology B.A. or B.S.
- Earth Science B.A.

### Potential Career/Options After Completing a Bachelor's Degree:

Career opportunities include:

- geologist
- geophysicist
- groundwater geologist
- oil and gas geologist
- mineralogist
- paleontologist
- marine geologist
- environmental geologist
- photogeologist
- seismologist
- consulting geologist
- soils engineer
- land use planner
- volcanologist
- astrogeologist
- geochemist
- economic geologist
- mining geologist
- hydrogeologist
- government geologist
- coal geologist

**CHEM 400 prerequisite:** CHEM 310 or another college chemistry course or a year of high school chemistry AND a passing score on the Chemistry Assessment Test at American River College

Semester 4

16 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	CHEM 401 General Chemistry II	5	CHEM 400	
GE	any Area 4 (Social & Behavioral Sciences) course (from 2 academic disciplines)	3		4
GE	any Area 5B (Biological Sciences) course	3		5B
GE	any Area 6 (Ethnic Studies) course	3		6
Elec	any transferable elective course	2		

EXPLANATION OF CATEGORIES		
Req	Required Core	A course that is required for this program
GE	General Education	A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement
Elec	Degree Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree

- glacial geologist
- vertebrate paleontologist
- geology professor
- earth science teacher

### Advising Notes:

- Students working on this major are placed directly into MATH 400. See a counselor to determine if you would benefit from additional preparation or support courses.
- Students can substitute ESLW 340 for ENGL C1000/C1000H (formerly known as ENGWR 300/480).
- **Transferable Elective Courses:** any elective courses numbered 300-499, or having a 4-digit number starting with C.

### Scheduling Notes:

- GEOL 310 and 311 are offered in the fall.

### Other Notes to Students Preparing to Transfer:

- See ASSIST.ORG for the transfer requirements of the institution to which you plan to transfer.
- The CSU system requires every student receiving a bachelor's degree to be knowledgeable about the Constitution of the United States, American history, and state and local government. This requirement is generally known as the American Institutions requirement. Students can complete this requirement at ARC before transferring. See a counselor for a list of approved courses..

### Honors Courses (H):

Students with a cumulative GPA of 3.2 or better who complete 15 or more units of Honors coursework earn an H onors Transfer Certificate and can take advantage of honors-to-honors transfer agreements with highly selective colleges and universities, both public and private.