



GEOLOGY

Degree Options:

- Associate of Science
- Associate of Arts

Program Description:

The following two tracks outlined are suggested programs, depending on the mathematics background of the student. Courses in high school chemistry and physics will also be helpful prerequisites for the college level science courses. A computer literacy exam is required for all students. Upon successful completion of the courses in each track, the student will have fulfilled the graduation requirements for the Associate of Science degree from CEU, and should be suitably prepared for transfer to a geology baccalaureate program offer by a state college or university. Note that several of the General Education classes could be taken during the summer terms to lessen the course loads during the regular academic year.

Career Opportunities:

Geology is the science which examines the composition, structure, and history of the earth. Most geologists have an academic background that includes courses in biology, chemistry, physics, mathematics, and computer science.

A bachelor's degree in geology or geophysics is required for entry level jobs. Careers with more potential for earnings and professional advancement usually require master's degrees. A Ph.D. is necessary for most research jobs in academia and in government. In 1996, approximately 47,000 geologists and geophysicists were employed in the United States; 40% in engineering and management services and 20% in the oil, gas and mining industries. The federal government employed about 5800 earth scientists in 1996, in agencies such as the United States Geological Survey, the Bureau of Land Management, and the Forest Service. In 1997, the average starting salary for geologists with bachelor's degrees was

about \$30,900 per year.

Some of the types of work that geologists perform are: exploration for oil, natural gas and minerals; assessment of ground water resources; designing and monitoring potential construction sites and waste disposal sites; identification of rocks and minerals used in industrial applications; studying fossils and the history of the earth; and the assessment of natural hazards such as slope failure, earthquakes, and volcanoes.

Recommended Course of Study - Track 1

Track 1 is recommended for students who are ready to take college algebra during their first semester at CEU. In the event that a student is ready to begin with Calculus II during the first semester, it is recommended that he/she take additional geology or computer science electives.

First Year:

	<u>Fall Semester</u>	
ENGL 1010	Introduction to Writing . . .	3
MATH 1050	College Algebra	4
CHEM 1210	General Chemistry I	4
CHEM 1215	General Chemistry I Lab .	1
GEO 1110	Physical Geology	3
GEO 1115	Physical Geology Lab . . .	1
Life Science Requirement	3
Semester Total	19

	<u>Spring Semester</u>	
ENGL 2010	Intermediate Writing	3
MATH 1060	Trigonometry	3
CHEM 1220	General Chemistry II	4
CHEM 1225	General Chemistry II Lab .	1
GEO 2500	Mineralogy	3
GEO 2510	Mineralogy Lab	1
American Institutions Requirement	3
Semester Total	18

Second Year:

	<u>Fall Semester</u>	
MATH 1210	Calculus I	4
PHYS 2010	General Physics I	4
PHYS 2015	General Physics I Lab . . .	1

Fine Arts/Humanities Requirement	9
Semester Total	18

Spring Semester

MATH 1220	Calculus II	4
PHYS 2020	General Physics II	4
PHYS 2025	General Physics II Lab	1
GEO 1220	Historical Geology	3
GEO 1225	Historical Geology Lab	1
Social Science Requirement		3
Oral Communication		3
Semester Total		19

Program Total 74

Recommended Course of Study - Track 2

Track 2 is recommended for students needing remedial work in mathematics. If it is at all possible, students who are not academically prepared to enroll in College Algebra during their first semester at CEU should consider taking MATH 1010, Intermediate Algebra, during the summer term prior to their freshman year.

First Year:

Fall Semester

ENGL 1010	Introduction to Writing	3
MATH 1010	Intermediate Algebra	3
GEO 1110	Physical Geology	3
GEO 1115	Physical Geology Lab	1
Life Science Requirement		3
Fine Arts or Humanities Requirement		3
Oral Communication		3
Semester Total		19

Spring Semester

ENGL 2010	Intermediate Writing	3
MATH 1050	College Algebra	4
GEO 1220	Historical Geology	3
GEO 1225	Historical Geology Lab	1
American Institutions Requirement		3
Social Science Requirement		3
Semester Total		17

Second Year:

Fall Semester

CHEM 1210	General Chemistry I	4
CHEM 1215	General Chemistry I Lab	1
MATH 1060	Trigonometry	3
Fine Arts/Humanities Requirement		6
Earth Science Elective		3
Semester Total		17

Spring Semester

CHEM 1220	General Chemistry II	4
CHEM 1225	General Chemistry II Lab	1
MATH 1210	Calculus I	4
PHYS 1010	Introduction to Physics	3
Computer Science Course		3
Semester Total		15

Program Total 68

PLEASE REFER TO THE CEU GENERAL CATALOG FOR A LISTING OF AA/AS GENERAL EDUCATION COURSES & DEGREE REQUIREMENTS.

For more information contact:

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