GEOLGY
Geology is the science of the planet Earth including such subjects as Earth's origin, its internal structure, the evolution of surface features and life forms through time, and the origin and distribution of natural resources. Geologists benefit society by providing information on environmental hazards such as earthquakes and volcanoes.

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CAREERS

Geology graduates can pursue careers in the petroleum or mining industry, water resources, environmental management and engineering geology. They find employment with federal and state agencies, in industry and in the field of education. Geology students commonly go on to graduate school for more specialized training.

REQUIREMENTS

The minimum number of semester credit hours required for this degree, including the core curriculum requirements, is 125 to 127.

All candidates seeking this degree must fulfill the core curriculum requirements and the degree requirements, which are listed below.

A. 56 semester credit hours in geology completed with a grade of C or better

1. 47 semester credit hours of required courses
   - GEO 1103, 1111 Introduction to Earth Systems and Laboratory
   - GEO 1123, 1131 Earth History and Laboratory
   - GEO 2003, 2011 Mineralogy and Laboratory
   - GEO 2023, 2031 Optical Mineralogy and Laboratory
   - GEO 3043, 3052 Petrology and Laboratory
   - GEO 3063, 3071 Paleontology and Laboratory
   - GEO 3083, 3091 Stratigraphy and Laboratory
   - GEO 3103, 3111 Structural Geology and Laboratory
   - GEO 3123, 3131 Sedimentary Geology and Laboratory
   - GEO 3374 Geochemistry
   - GEO 4933 Field Geology Part I
   - GEO 4943 Field Geology Part II

2. 9 additional semester credit hours selected from the following (a maximum of 3 semester credit hours from either GEO 4911-3 or 4951-3 may apply to this requirement):
   - GEO 3113 Geologic Field Investigations
   - GEO 3143, 3151 Economic Geology and Laboratory
   - GEO 3163 Oceanography
   - GEO 3383 General Geophysics
   - GEO 4013 Volcanology
   - GEO 4023 Engineering Geology
   - GEO 4063 Principles of Environmental Geology
   - GEO 4133, 4121 Geomorphology and Laboratory
   - GEO 4623 Ground-Water Hydrology
   - GEO 4803 X-Ray Crystallography
   - GEO 4911-3 Independent Study
   - GEO 4951-3 Special Studies in Geology
   - GEO 4993 Honors Research

B. 27 required semester credit hours in the College of Sciences
   - CHE 1103 General Chemistry I
   - CHE 1113 General Chemistry II
   - CS 1063 Introduction to Computer Programming
   - or
   - CS 1073 Introductory Computer Programming for Scientific Applications
   - ES 2113 Fundamentals of Geographic Information Systems (GIS)
   - MAT 1214 Calculus I
   - MAT 1223 Calculus II
   - Either
   - PHY 1603, 1611 Algebra-based Physics I and Laboratory
   - PHY 1623, 1631 Algebra-based Physics II and Laboratory
   - or
   - PHY 1943, 1951 Physics for Scientists I and Laboratory
   - PHY 1963, 1971 Physics for Scientists II and Laboratory

BACHELOR OF ARTS IN GEOLOGY

The minimum number of semester credit hours required for this degree, including the core curriculum requirements, is 120 to 122.

All candidates seeking this degree must fulfill the core curriculum requirements and the degree requirements, which are listed below.

A. 40 to 41 semester credit hours of geology
   - GEO 1103, 1111 Introduction to Earth Systems and Laboratory
   - GEO 1123, 1131 Earth History and Laboratory
   - GEO 3063, 3071 Paleontology and Laboratory
   - GEO 3163 Oceanography
   - GEO 2003, 2011 Mineralogy and Laboratory
   - or
   - GEO 3203 Rocks and Minerals
   - GEO 4063 Principles of Environmental Geology
   - GEO 4113, 4211 Geomorphology and Laboratory

2. 15 semester credit hours at the upper-division level selected from among the remaining GEO course offerings. Students should meet with the College of Sciences Advising Center and/or a member of the Department of Earth and Environmental Science to verify that they have taken the necessary prerequisites.

B. 23 to 24 semester credit hours in the College of Sciences
   - CHE 1103 General Chemistry I
   - CHE 1113 General Chemistry II
   - Either
   - CHE 1132 General Chemistry II Laboratory
   - or
   - GEO 3374 Geochemistry
   - ES 2113 Fundamentals of Geographic Information Systems (GIS)
   - MAT 1214 Calculus I
   - PHY 1603, 1611 Algebra-based Physics I and Laboratory
   - PHY 1623, 1631 Algebra-based Physics II and Laboratory

C. 24 semester credit hours of electives, seven of which must be at the upper-division level hours to meet the UTSA minimum of 39 upper-division hours

MINOR IN GEOLOGY

All students pursuing the minor in geology must complete 21 to 22 semester credit hours.

A. 15 to 16 semester credit hours of required courses
   - GEO 1103, 1111 Introduction to Earth Systems and Laboratory
   - GEO 1123, 1131 Earth History and Laboratory
   - GEO 2003, 2011 Mineralogy and Laboratory
   - or
   - GEO 3203 Rocks and Minerals
   - GEO 3063, 3071 Paleontology and Laboratory

B. 6 semester credit hours of approved upper-division geology electives

To declare a minor in geology, obtain advice, or seek approval of substitutions for course requirements, students should consult the College of Sciences Undergraduate Advising Center.

Information gathered from the 2006–2008 undergraduate catalog.
http://www.utsa.edu/ucat/chapter7/