GENERAL INFORMATION:
Earth and Planetary Sciences (geology) is the study of the Earth and other bodies in the solar system. Geology is an interdisciplinary science that uses chemistry, physics, mathematics, biology, oceanography and other disciplines to achieve a comprehensive understanding of the evolution of our planet and the solar system, to facilitate the discovery and extraction of natural resources, and to enhance the stewardship of our planet’s environment. The B.S. is the recommended route for graduate school preparation. Students do not need to select a minor as completion of degree requirements fulfills requirements for a distributed minor in science. Concentrations in several Geoscience "tracks" (e.g., environmental, hydrology, mineralogy/chemistry, and planetary, among others) is achieved through selection of electives in consultation with departmental faculty advisors. Completion of a senior or honors thesis is strongly encouraged. The B.A. is recommended for those interested in more non-technical application of the geosciences, and selection of a minor is required. Combined with a minor in geography, anthropology, english/journalism, sociology, political science or economics, the B.A. is a flexible degree preparing students interested in fields of employment such as education, journalism/science writing, law and public policy.

BACHELOR OF SCIENCE (no minor needed)

E&PS Core (Credits)
101, 105L (or Env Sc 101, 102L) - How the Earth Works: An Intro. to Geology (4)
201L - Earth History (4)
301, 302L - Mineralogy/Earth & Planetary Materials (5)
303L - Igneous and Metamorphic Petrology (4)
304L - Sedimentology and Stratigraphy (4)
307L - Structural Geology (4)
319L - Field Geology (4)
401 - Seminar (1) (concurrent enrollment in 490)
490 - Geologic Presentation (1) (concurrent enrollment in 490)
and 12 additional hours from E&PS courses above 300 [excluding 491-2, 493, 495].
Total Credits = 43

Supporting Courses (Credits)
Chem. 121L* (4)
Chem. 122L* (4)
Math 162 (4)
Math 163 (4)
Phys. 160 (3)
Phys. 161 (3)
E&PS 433 or Stat. 345 (3) (formerly Math 345)
Either English 219, 220 or 290 is required as a Group Requirement for the major.
and 7 additional credits in supporting science from the following:
Chemistry, Physics, or Math above the levels required above; or Astron. 270, Bio. 123 or above, or with E&PS department approval selected Engineering, Anthropology, or Geography courses.
Total Credits = 35

*Chem. 131L (4) and 132L (5) recommended for those with good HS Chemistry background: only offered fall and spring, respectively.

BACHELOR OF ARTS (must also select a minor)

E&PS Core (Credits)
101, 105L, How the Earth Works (4) (or EnvSc 101, 102L, The Blue Planet (4))
201L, Earth History (4)
301, 302L, Mineralogy/Earth & Planetary Materials (5)
303L, Igneous and Metamorphic Petrology (4)
304L, Sedimentology and Stratigraphy (4)
307L, Structural Geology (4)
319L or 310L, Field Geology (4) or NM Field Geology (4)
401 - Seminar (1) (concurrent enrollment in 490)
490 Geologic Presentation (1)
and 6 hrs of E&PS courses above 300, 3 of which are at 400 level [excluding 491-2, 493, 495].
Total Credits = 37

Supporting Sciences (Credits)
Chem. 121L (4)
Physics 160 (3) or 151 (3)
and 9 additional hours from Chemistry or Physics above the levels required above; Math 162 or above, Biology 123 or above, Astronomy 270, or (with E&PS departmental approval) selected Engineering, Anthropology, or Geography courses.
Total Credits = 16.

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