

## **Geology (B.S.)**

### General Education

**Rhetoric and Composition:** Two approved courses in rhetoric and composition (6 hours)

**Mathematics:** One approved mathematics course (3 hours; approved related courses below will apply)

**Statistics:** One approved statistics course (3 hours)

**Natural Sciences:** Two approved natural science courses, at least one including a laboratory component (78 hours)

**Humanities and Fine Arts:** Two approved humanities and fine arts courses, one from fine arts and one from either (6 hours)

**Cultures and Civilizations:** Option A: Western Humanities I and II and NonWestern Cultures and Civilizations OR Option B: World Civilization I, II, III (9 hours total)

**Behavioral and Social Sciences:** Two approved behavioral or social science courses in two different disciplines (6 hours)

### Major and Related Courses

English 278

Geology 111/181, 112/182, 303, 341, 342, 451, 480, 490

Any two of the following sequences: Biology 121 and 122, Chemistry 121/123 and 122/124, Physics 103/183 and 104/184, or Physics 230/280 and 231/281.

Recommended: Astronomy 101/181 or 102/182, Environmental Science 150, Math 161/162, Physics 230/280, 231/281, 232/282 and Chemistry 341, 351/353.

2.0 average in all geology courses. Minimum of 39 hours of 300 and 400 level courses. Electives to complete 120 hours.

Each geology major must also complete the requirements for either the Geology option or the Environmental Geology option.

### **2380 Geology**

Geology 321, 452, plus 7 hours of geology electives, including at least one course at the 400 level; Mathematics 151/152.

### **2382 Environmental Geology**

Geology 123, 445, plus 8 hours of geology electives, including at least one course at the 400 level; Mathematics 131 or 151/152.

### **Field Work**

Geology majors are encouraged to enroll in a field geology course (field camp) during the summer following the junior or senior year. In the latter case, graduation will be postponed until August and the requirement that the last 30 hours be completed at UTC will be waived. It is still required, however, that at least 30 hours be completed at UTC.

### **Graduate Study Preparation**

Most graduate schools in geology require a minimum of 1 year of calculus, 1 year of calculus based physics, and a good background in courses from biology, chemistry, and computer

science, and a geology field camp. Therefore, students intending to pursue a graduate degree in geology should take those courses that will best prepare them for the graduate program of their choice. It is strongly recommended that the prospective graduate student also take Geology 497r.

**Mathematics** 106, 144, and 145 may be recommended to precede Mathematics 151/152, depending on preparation of the individual student. Students taking the Environmental Geology option may substitute Mathematics 136 for Mathematics 151/152. Mathematics 106 and 131 may be recommended to precede Mathematics 136, depending on the preparation of the individual student.

**GEOLOGY MINOR**

18 hours of geology including 111/181, 112/182, and 407. At least 8 hours 300 level or above. Minimum 2.0 average in all geology courses.