Environmental Sciences

Fulbright College offers a major in earth science leading to the Bachelor of Science degree. Prospective secondary teachers may plan a program, in cooperation with the College of Education, which will satisfy the teacher licensure requirements. Students interested in environmental problems, teaching earth science in public schools, or wishing to pursue graduate work in either geography or geology will obtain much of the necessary foundation through this degree. Because the program outlined below lists only minimum science requirements, it is expected that most students will use some of their elective credit hours to strengthen their mathematics and science backgrounds in areas other than geography and geology. These areas of additional study will be determined through consultation between the student and the adviser. Students interested in this major should contact either Professor Ralph Davis or Professor J.C. Dixon.

Requirements for the B.S. Degree with a Major in Earth Science: In addition to the University Core (http://catalog.uark.edu/archives/2013-14/undergraduatecatalog/academicregulations/universitycore) requirements and the Fulbright College of Arts and Sciences Graduation Requirements (http://catalog.uark.edu/archives/2013-14/undergraduatecatalog/collegesandschools/jwilliamfulbrightcollegeofartsandsciences), the following course requirements must be met. Bolded courses from the list below may be applied to portions of the University/state minimum core requirements.

### Basic Courses

<table>
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<tr>
<th>Biology</th>
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<tbody>
<tr>
<td>GEOL 1113 &amp; GEOL 1111L General Geology (ACTS Equivalency = GEOL 1114 Lecture) (Sp, Su, Fa) and General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab) (Sp, Su, Fa)</td>
<td>4</td>
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<tr>
<td>GEOL 1133 &amp; GEOL 1131L Environmental Geology (ACTS Equivalency = GEOL 1124 Lecture) (Sp) and Environmental Geology Laboratory (ACTS Equivalency = GEOL 1124 Lab) (Sp)</td>
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Select one of the following: 3-4

- MATH 2043 Survey of Calculus (ACTS Equivalency = MATH 2203) (Sp, Su, Fa)
- MATH 2053 Finite Mathematics (Sp, Su, Fa)
- MATH 2183 Mathematical Reasoning in a Quantitative World (ACTS Equivalency = MATH 1003) (Sp, Fa)
- MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)

6 hours in a single world language at the 1013 Elementary II level or higher. 1

- ASTR 2003 Survey of the Universe (ACTS Equivalency = PHSC 1204 Lecture) (Sp, Su, Fa) and Survey of the Universe Laboratory (ACTS Equivalency = PHSC 1204 Lab) (Sp, Su, Fa)

### Advanced Courses

- GEOL 3413 Sedimentary Rocks & Fossils (Sp) 3
- GEOL 4033 Hydrogeology (Sp) 3
- GEOL 4924 Earth System History (ACTS Equivalency = PHSC 1104) (Sp) 4

At least 6 additional hours, at the 3000 level or above, in either geography or geology.

Total Hours 65-66

1 World language courses taken are dependent on placement level in sequence. NOTE: 1003, if required, usually will not count towards the 120 hours required for degree credit; see College Admission Requirements (http://catalog.uark.edu/archives/2013-14/undergraduatecatalog/collegesandschools/jwilliamfulbrightcollegeofartsandsciences).

**Writing Requirement:** The college writing requirement is to be met by completion of a term paper deemed satisfactory by the student’s adviser and instructor of an upper-level geology or geography course. The college writing requirement may also be met by the completion of an honors thesis.

**Earth Science (B.S.) Teacher Licensure in Life/Earth Science or Physical/Earth Science Requirements:** Students wanting to teach science in middle or secondary school should consult with an adviser in the College of Education and Health Professions.