

# MAJOR MAP FOR BACHELOR OF SCIENCE IN EARTH SCIENCE (ERSCBS) 2015-16 THROUGH 2023-24 CATALOG YEARS

Last Updated: July 20, 2023

## ERSCBS Degree Snapshot

### University Perspectives (0-1 hr)

\_\_\_\_\_ **UNIV 1001**, University Perspectives (waived for transfer students with 24 or more transferred hours)

### State Core English Composition (0-6 hrs)

\_\_\_\_\_ **ENGL 1013**, Composition 1 or exemption  
\_\_\_\_\_ **ENGL 1023**, Composition 2 or exemption (see [catalog](#) for ACT/SAT test score exemption)

### State Core US History or Government (3 hrs)

\_\_\_\_\_ **US HIST/PLSC** \_\_\_\_\_

### State Core Mathematics (0-3 hrs)

\_\_\_\_\_ **MATH 1203** (or students can skip and start in higher math for major based on placement)

### State Core Natural Sciences w/ labs (0 hrs)

Met with major requirements

### State Core Social Sciences (9 hrs)

\_\_\_\_\_ **Social Science** \_\_\_\_\_  
\_\_\_\_\_ **Social Science** \_\_\_\_\_  
\_\_\_\_\_ **Social Science** \_\_\_\_\_

### State Core Fine Arts (3 hrs)

\_\_\_\_\_ **Fine Art** \_\_\_\_\_

### State Core Humanities (3 hrs)

\_\_\_\_\_ **Humanities** \_\_\_\_\_

### Major World Language to 1013 level (3-6 hrs)

\_\_\_\_\_ **Language** \_\_\_\_\_ 1003 (or fluency)  
\_\_\_\_\_ **Language** \_\_\_\_\_ 1013 (or higher required)

### Biology Requirement (8 hrs)

\_\_\_\_\_ **BIOL** \_\_\_\_\_  
\_\_\_\_\_ **BIOL** \_\_\_\_\_

### Chemistry or Physics Requirement (8 hrs)

\_\_\_\_\_ **CHEM 1103/1101L**, University Chemistry I  
\_\_\_\_\_ **CHEM or PHYS** \_\_\_\_\_

### Additional Non-GEOS Math and Science Courses (7-8 hrs)

\_\_\_\_\_ **MATH 2043**, Survey of Calculus **OR** **MATH 2554**, Calculus I (Cal 1 has additional pre-reqs)  
\_\_\_\_\_ **ASTR 2003/2001L**, Survey of the Universe

### Geoscience Courses (35-36 hrs)

\_\_\_\_\_ **GEOS 1113/1111L**, Physical Geology or GEOS 1154, Geology for Majors  
\_\_\_\_\_ **GEOS 1133/1131L**, Earth Science  
\_\_\_\_\_ **GEOS 2313**, Mineralogy  
\_\_\_\_\_ **GEOS 3023**, Introduction to Cartography  
\_\_\_\_\_ **GEOS 3043**, Sustaining Earth  
\_\_\_\_\_ **GEOS 4353**, Meteorology **OR** **GEOS 4363**, Climatology  
\_\_\_\_\_ **GEOS 3413**, Sedimentary Geology  
\_\_\_\_\_ **GEOS 4033**, Hydrology  
\_\_\_\_\_ **GEOS 4693**, Environmental Justice **OR** **GEOS 4924**, Earth System History  
Take 6 hrs GEOS 3000+ electives:  
\_\_\_\_\_ **GEOS 3000+ electives** \_\_\_\_\_  
\_\_\_\_\_ **GEOS 3000+ electives** \_\_\_\_\_

### General Electives (26-41 hrs)

How you use these hours will depend on your educational and career goals. Early in your degree you might use this section to jot down ideas for how to plan. As you get closer to graduation, you might use this section to track which classes you've taken outside the above requirements.

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## Graduation Plan

Use the following additional resources, in addition to this major map, to complete your graduation plan ([Catalog](#), and your [Degree Audit](#) in UAconnect). Many students have more than one major, minor, or pre-professional goal that has additional required classes. This tool allows you to combine all your educational goals in to one plan.

High School credit	List all Advanced Placement, International Baccalaureate, Dual or Concurrent credit			
Year	Fall	Spring	Summer	Total
Year 1				Total 1 <sup>st</sup> year credit hours (aim for 30):
Year 2				Total 2 <sup>nd</sup> year credit hours (aim for 60):
Year 3				Total 3 <sup>rd</sup> year credit hours (aim for 90):
Year 4				Total 4 <sup>th</sup> year credit hours (Must be at least 120):

**Graduation Checklist (does your plan include the following):**

- Do you have at least a 2.0 GPA (this will be something you track each semester)
- All state minimum core requirements
- All Major(s)/Minor(s) requirements
- [Writing requirement](#) complete
- Have At least 50% of each major/minor taken from UofA
- 24 hours of 3000+ classes exclusively from Fulbright College of Arts and Sciences classes
- 30 hours of 3000+ classes exclusively from the University of Arkansas. This can include courses taken for the 24-hour rule.
- 40 hours of upper-level classes. (3000+ or 2000+ with a pre-requisite. Can include transfer credit.) This can include courses taken for the 24-hour and 30-hour rules.
- 120 total eligible credit hours (see below for a list of ineligible classes)

**COURSES THAT DO NOT COUNT TOWARDS THE 120 HOURS REQUIRED FOR GRADUATION**

- ENGL 0002
- MATH 0001L, MATH 0002L, MATH 0003, and MATH 0131L

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- Duplicated/Repeated courses (i.e.: if the same course is taken more than once, the hours will only count once for graduation)

## Department Information:

Faculty who have exception/substitution authority: Kevin Befus (faculty advisor) and Jason Tullis

Transfer Coursework Restriction: At least 50% of a student's Arts and Sciences (ARSC) major or minor must be taken at the University of Arkansas.

GPA (Grade Point Average): Every student must have at least a 2.00 cumulative grade point average to be eligible to graduate from the University of Arkansas.

Please visit <https://catalog.uark.edu/undergraduatecatalog> for an extensive list of core, major, graduation, and pre-requisite requirements. To read more about individual classes, visit the [courses of instruction](#) page for course descriptions.

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## Degree Requirement Breakdown by Category

The following information is designed to help you navigate your experience in your degree and answer common questions that may come up for each requirement.

Category	Degree Requirements	Curriculum Notes
<a href="#">UNIVERSITY PERSPECTIVES</a>  0-1 hr	<ul style="list-style-type: none"> <li>UNIV 1001, University Perspectives</li> </ul>	Or equivalent from another University of Arkansas college. (AFLS 1023H, ARSC 1201, GNEG 1111, HIST 1003(H), HIST 1003(H), PLSC 1003, BUSI/WCOB 1111)  <b>Note:</b> students who transfer to the University of Arkansas with at least 24 credit hours will have this requirement waived.
<a href="#">STATE CORE COMPOSITION</a>  0-6 hrs	<ul style="list-style-type: none"> <li>ENGL 1013, Composition 1 or SAT/ACT exemption</li> <li>ENGL 1023, Composition 2 or SAT/ACT exemption</li> </ul>	See <a href="#">Catalog</a> for information about placement and/or exemption.
<a href="#">STATE CORE US HISTORY or GOVERNMENT</a>  3 hrs	<b>Choose 1: *</b> <ul style="list-style-type: none"> <li>HIST 2003, History of the American People to 1877</li> <li>HIST 2013, History of the American People 1877 to Present</li> <li>PLSC 2003, American National Government</li> </ul>	*Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.
<a href="#">STATE CORE MATHEMATICS</a>  0-3 hrs	<ul style="list-style-type: none"> <li>MATH 1203, College Algebra (or skip by placing in to higher math for major through <a href="#">math placement</a>)</li> </ul>	Based on ACT/SAT or other math placement scores, students may need to enroll in additional remediation related courses. See <a href="#">catalog</a> or <a href="#">math placement</a> website for additional information.
<a href="#">STATE CORE NATURAL SCIENCES CORE</a>  0 hrs	Requirement met through major courses	
<a href="#">STATE CORE SOCIAL SCIENCES</a>  9 hrs	<b>Choose 3: *</b> <ul style="list-style-type: none"> <li>AGEC 1103, Principles of Agriculture Microeconomics</li> <li>AGEC 2103, Principles of Agriculture Macroeconomics</li> <li>ANTH 1023, Intro to Cultural Anthropology</li> <li>COMM 1023, Communication in a Diverse World</li> <li>ECON 2013, Principles of Macroeconomics</li> <li>ECON 2023, Principles of Microeconomics</li> <li>ECON 2143, Basic Economics: Theory and Practice</li> <li>EDST 2003, Introduction to Educational Studies</li> <li>GEOS 1123, Human Geography</li> <li>GEOS 2003, World Regional Geography</li> <li>HDFS 1403, Life Span Development</li> <li>HDFS 2413, Family Relations</li> <li>HDFS 2603, Rural Families &amp; Communities</li> <li>HIST 1113, Institutions and Ideas of World Civilizations I</li> <li>HIST 1123, Institutions and Ideas of World Civilizations II</li> <li>HIST 2003, History of the American People to 1877</li> <li>HIST 2013, History of the American People 1877 to Present</li> <li>HIST 2093, Animals in World History</li> <li>HUMN 1114H, Honors Roots of Culture to 500 C.E. (Honors only)</li> <li>HUMN 2114H, Honors Birth of Modern Culture, 1600-1900 (honors only)</li> <li>INST/PLSC 2813, Intro to International Relations &amp; Global Studies</li> </ul>	Students must take classes from at least two departments in the Social Sciences category.  *Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.

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	<ul style="list-style-type: none"> <li>• PLSC 2003, American National Government</li> <li>• PLSC 2013, Intro to Comparative Politics</li> <li>• PLSC 2203, State and Local Government</li> <li>• PSYC 2003, General Psychology</li> <li>• RESM 2853, Leisure and Society</li> <li>• SOCI 2013, General Sociology</li> <li>• SOCI 2033, Social Problems</li> <li>• STEM 2003, The Art of STEM Communication</li> </ul>	
<p><b>STATE CORE FINE ARTS</b></p> <p><b>3 hrs</b></p>	<p><b>Choose 1:</b></p> <ul style="list-style-type: none"> <li>• ARCH 1003, Architecture Lecture</li> <li>• ARHS 1003, Art Lecture</li> <li>• COMM 1003, Film Lecture</li> <li>• DANC 1003, Movement and Dance</li> <li>• ENGL 2023, Creative Writing 1</li> <li>• HUMN 2114H, Honors Birth of Modern Culture 1600-1900 (honors only)</li> <li>• LARC 1003, The American Landscape</li> <li>• MLIT 1003, Experiencing Music</li> <li>• MLIT 1013, Music and Society (music majors only)</li> <li>• MLIT 1333, Popular Music</li> <li>• THTR 1003, Theatre Appreciation</li> <li>• THTR 1013, Musical Theatre Appreciation</li> <li>• THTR 1683, Acting I</li> <li>• THTR 1883, Acting 1 for Theatre majors</li> </ul>	<p>Classes taken in this category may not overlap in any other core category</p>
<p><b>STATE CORE HUMANITIES</b></p> <p><b>3 hrs</b></p>	<p><b>Choose 1: *</b></p> <ul style="list-style-type: none"> <li>• AAST 2023, The African American Experience</li> <li>• ANTH 1033, Introduction to Archeology</li> <li>• ARCH 1013, Diversity and Design</li> <li>• CLST 1003, Introduction to Classical Studies: Greece</li> <li>• CLST 1013, Introduction to Classical Studies: Rome</li> <li>• COMM 1233, Media, Community and Citizenship</li> <li>• DANC 1003, Dance Appreciation</li> <li>• DASC 2133, Data Privacy &amp; Ethics</li> <li>• ENGL 1213, Introduction to Literature</li> <li>• ENGL 2023, Creative Writing I</li> <li>• GNST 2003, Introduction to Gender Studies</li> <li>• HIST 1113, Institutions and Ideas of World Civilizations I</li> <li>• HIST 1123, Institutions and Ideas of World Civilizations II</li> <li>• HIST 2003, History of the American People to 1877</li> <li>• HIST 2013, History of the American People 1877 to Present</li> <li>• HUMN 1124H*, Honors Equilibrium of Cultures 500-1600 (Honors only)</li> <li>• HUMN 2213, Introduction to World Religions</li> <li>• LALS 2013, Introduction to Latin American and Latino Studies</li> <li>• MRST 2013, Introduction to Medieval and Renaissance Studies</li> <li>• MUSY 2003, Music in World Cultures</li> <li>• PHIL 2003, Introduction to Philosophy</li> <li>• PHIL 2103, Introduction to Ethics</li> <li>• PHIL 2203, Logic</li> <li>• PHIL 2303, Human Nature and the Meaning of Life</li> <li>• PHIL 3103, Ethics and the Professions</li> </ul>	<p>*Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.</p>

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	<ul style="list-style-type: none"> <li>• THTR 1003, Theatre Appreciation</li> <li>• THTR 1013, Musical Theatre Appreciation</li> <li>• WLIT 1113, World Literature: Beginnings to 1650 CE</li> <li>• WLIT 1123, World Literature: 1650 CE to Present</li> <li>• Any Intermediate level foreign language numbered at the 2000 level</li> </ul>	
<p><b><u>MAJOR LANGUAGE REQUIREMENT</u></b></p> <p>3-6 hrs*</p>	<p><b>Get to the Elementary II (1013) level or higher of a foreign language:</b></p> <p>This may be completed by taking only the 1013 level, <u>if the student has previous fluency</u>, but is most commonly completed by taking two classes (ARAB and CHIN both also offer intensive formats for accelerated study):</p> <ul style="list-style-type: none"> <li>• Elementary I (1003)</li> <li>• Elementary II (1013)</li> </ul>	<p><b>Language Options:</b> See the <a href="#">catalog</a> for complete list</p> <p><b>Language Placement:</b> See the WLLC website for a list of available <a href="#">placement exams</a> for certain languages as well as information about <a href="#">credit by exam</a> for Spanish.</p> <p>*While the catalog language is written differently, the college has confirmed with the department that this is the intended language requirement.</p>
<p><b><u>BIOLOGY</u></b></p> <p>8 hrs</p>	<p><b>Take 8 hours of BIOL courses.</b></p>	<p>BIOL 1543/1541L, Principles of Biology, is a pre-requisite for most other BIOL classes.</p>
<p><b><u>CHEMISTRY OR PHYSICS</u></b></p> <p>8 hrs</p>	<p><b>Take 8 hours of CHEM or PHYS courses*</b></p>	<p>*CHEM 1103, University Chemistry I, is a pre-requisite for GEOS 2313, so students should take CHEM 1103 as one of these classes. GEOS 2313 is offered once a year and is a pre-requisite for multiple advanced courses, so CHEM 1103 should be taken in the first year, when possible.</p>
<p><b><u>ADDITIONAL NON-GEOS MATH AND SCIENCE COURSES</u></b></p> <p>7-8 hrs</p>	<ul style="list-style-type: none"> <li>• Take <b>MATH 2043</b>, Survey of Calculus or <b>MATH 2554</b>, Calculus I (Cal 1 requires MATH 1213 or 1284 as a prerequisite or higher math placement)*</li> <li>• <b>ASTR 2003/2001L</b>, Survey of the Universe</li> </ul>	<p>Students can verify <a href="#">math placement</a> on the math department website.</p> <p>*The catalog also lists MATH 2183 and 2053 as options, but GEOS 4033, which is required in the major, requires either MATH 2043 or 2554. Students can also take MATH 2445, which is equivalent to MATH 2554.</p>
<p><b><u>GEOSCIENCE COURSES</u></b></p> <p>35-36 hrs</p>	<ul style="list-style-type: none"> <li>• <b>GEOS 1113/1111L</b>, Physical Geology or <b>GEOS 1154</b>, Geology for Majors*</li> <li>• <b>GEOS 1133/1131L</b>, Earth Science</li> <li>• <b>GEOS 2313</b>, Minerology (Fall only. Pre-req: CHEM 1103 and GEOS 1113)</li> <li>• <b>GEOS 3023</b>, Introduction to Cartography (Fall only)</li> <li>• <b>GEOS 3043</b>, Sustaining Earth (Fall only)</li> <li>• <b>GEOS 4353</b>, Meteorology (Fall only) <b>OR</b> <b>GEOS 4363</b>, Climatology (Spring only)</li> <li>• <b>GEOS 3413</b>, Sedimentary Geology (Spring only. Pre-req: GEOS 2313)</li> <li>• <b>GEOS 4033</b>, Hydrology (Spring only. Pre-req: MATH 2043 or 2554c)**</li> <li>• <b>GEOS 4693</b>, Environmental Justice (Spring Only) <b>OR</b> <b>GEOS 4924</b>, Earth System History (Spring only. Pre-req: GEOS 3413, GEOS 3514 and either GEOS 4223 or 4333)***</li> <li>• <b>6 hrs GEOS 3000+ electives ****</b></li> </ul>	<p>*GEOS 1154 is not listed in the catalog as an option but has been approved by the department to count here via a standing substitution while they work to add it to a future catalog.</p> <p>** GEOS 4033 has a GEOS 3514 pre-requisite but the department offers a standing waiver of the pre-requisite for ERSCBS majors. Students just need to contact the instructor directly to request enrollment.</p> <p>***The catalog lists only GEOS 4924, but the department offers a standing substitution to count GEOS 4693 for students not wishing to take the additional GEOS pre-requisites needed for GEOS 4924.</p> <p>****The department highly recommends GEOS 3543, Geospatial Applications and Information Science, as one of these electives since this field is experiencing large career growth.</p>
<p><b><u>GENERAL ELECTIVES</u></b></p> <p>26-41</p>	<p>Hours will vary depending on math placement, language placement, and whether a student is exempt from ENGL 1013 and 1023.</p>	<p>Some general electives may need to be upper level to meet college and university residency requirements. See <a href="#">Graduation Checklist</a> on page 2 for more information.</p>
<p><b><u>WRITING REQUIREMENT</u></b></p>	<p>The college writing requirement may be satisfied in one of two ways:</p>	

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	<ul style="list-style-type: none"> <li>• completion of a term paper deemed satisfactory by the student's adviser and instructor of an upper-level geoscience course documented using the <a href="#">writing requirement declaration</a> form.</li> <li>• Successful honors thesis defense</li> </ul>	
<p><b><a href="#">HONORS</a></b></p>	<p><b><u>Minimum Requirements for Honors:</u></b></p> <ul style="list-style-type: none"> <li>• Maintain cumulative grade point average of 3.5 in all coursework.</li> <li>• Complete a minimum of 12 hours of honors courses from the UofA.</li> <li>• Complete and defend Honors Thesis</li> </ul>	<p><b>Honors Thesis Timeline:</b> Honors students should consistently check the <a href="#">honors thesis timeline</a> to stay on track to complete your honors thesis.</p> <p><b>College Honors:</b> Students who also are following the College Honors Core for Bachelor of Science programs need to also complete those additional requirements:</p> <ul style="list-style-type: none"> <li>• <a href="#">2023-24 catalog requirements</a></li> <li>• <a href="#">2022-23 and older catalog requirements</a></li> </ul>