

MAJOR MAP FOR BACHELOR OF SCIENCE IN GEOLOGY CONCENTRATION IN GEOLOGY (GEOLBS-GEOL) 2020-21 THROUGH 2023-24 CATALOG YEARS

Last Updated: July 20, 2023

GEOLBS-GEOL Degree Snapshot

University Perspectives (0-1 hr)

_____ UNIV 1001, University Perspectives or exemption

State Core English Composition (0-6 hrs)

_____ ENGL 1013, Composition 1 or exemption

_____ ENGL 1023, Composition 2 or exemption

State Core US History or Government (3 hrs)

_____ US HIST/PLSC _____

State Core Mathematics (0-3 hrs)

_____ MATH _____

State Core Natural Sciences w/ labs (0 hrs)

Met with courses in major.

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)

Mathematics for Major (8-12 hrs)

_____ MATH 1284c, Pre-Calculus OR MATH 1213, Plane Trigonometry (or [math placement](#))

_____ MATH 2554c, Calculus I (Required)

_____ MATH 2564c, Calculus II (Required)

Chemistry (8 hrs)

_____ CHEM 1103/1101L, University Chemistry I

_____ CHEM 1123/1121L, University Chemistry II

Physics (8 hrs)

_____ PHYS 2013/2011L, College Physics I or PHYS 2054, University Physics I

_____ PHYS 2033/2031L, College Physics II or PHYS 2074, University Physics II

Geoscience courses (45 hrs)

_____ GEOS 1113/1111L Physical Geology or GEOS 1154, Geology for Majors

_____ GEOS 2313 Mineralogy

_____ GEOS 3413 Sedimentary Geology

_____ GEOS 3514 Structural Geology

_____ GEOS 3873 Geological Data Analysis (

_____ GEOS 4053 Geomorphology (

_____ GEOS 4063 Principles of Geochemistry OR GEOS 4433 Geophysics

_____ GEOS 4223 Stratigraphy and Sedimentation OR

_____ GEOS 3313 Igneous and Metamorphic Petrology

_____ GEOS 4686 Geology Field Camp

_____ GEOS 4924 Earth System History

Take 9 hrs GEOS electives:

_____ GEOS 3000+ _____

_____ GEOS 3000+ _____

_____ GEOS 3000+ _____

Additional Science (3 hrs)

Take a science elective, 3000 level or higher (BIOL, CHEM, GEOS, MATH, or PHYS):

_____ Science 3000+ _____

General Electives (10-27 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 st year credit hours (aim for 30):
Year 2				Total 2 nd year credit hours (aim for 60):
Year 3				Total 3 rd year credit hours (aim for 90):
Year 4				Total 4 th 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
- Duplicated/Repeated courses (i.e.: if the same course is taken more than once, the hours will only count once for graduation)

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Faculty who have exception/substitution authority: Jason Tullis, John Shaw, and Glenn Sharman

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.

Field Camp: The Geology BS is a major that has a required summer field camp between Junior and Senior year. This has not been offered every summer in the last few years. If students have had difficulty taking field camp, they should consult with the department for an appropriate substitution.

Course Sequencing: The Geology BS is a pre-requisite heavy major, with many classes offered only once a year. Creating a careful multi-semester plan is encouraged early in the major.

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
UNIVERSITY PERSPECTIVES 0-1 hr	<ul style="list-style-type: none"> UNIV 1001, University Perspectives 	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) Note: students who transfer to the University of Arkansas with at least 24 credit hours will have this requirement waived.
STATE CORE COMPOSITION 0-6 hrs	<ul style="list-style-type: none"> ENGL 1013, Composition 1 or SAT/ACT exemption ENGL 1023, Composition 2 or SAT/ACT exemption 	See Catalog for information about placement and/or exemption.
STATE CORE US HISTORY or GOVERNMENT 3 hrs	Choose 1: * <ul style="list-style-type: none"> HIST 2003, History of the American People to 1877 HIST 2013, History of the American People 1877 to Present PLSC 2003, American National Government 	*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.
STATE CORE MATHEMATICS 0-3 hrs	Choose 1: <ul style="list-style-type: none"> MATH 1203, College Algebra (or placement into higher math for major) 	Based on ACT/SAT or other math placement scores, students may need to enroll in additional remediation related courses. See catalog or math placement website for additional information.
STATE CORE NATURAL SCIENCES CORE 0 hrs	Met with sciences in major	
STATE CORE SOCIAL SCIENCES 9 hrs	Choose 3: * <ul style="list-style-type: none"> AGEC 1103, Principles of Agriculture Microeconomics AGEC 2103, Principles of Agriculture Macroeconomics ANTH 1023, Intro to Cultural Anthropology COMM 1023, Communication in a Diverse World ECON 2013, Principles of Macroeconomics ECON 2023, Principles of Microeconomics ECON 2143, Basic Economics: Theory and Practice EDST 2003, Introduction to Educational Studies GEOS 1123, Human Geography GEOS 2003, World Regional Geography HDFS 1403, Life Span Development HDFS 2413, Family Relations HDFS 2603, Rural Families & Communities HIST 1113, Institutions and Ideas of World Civilizations I HIST 1123, Institutions and Ideas of World Civilizations II HIST 2003, History of the American People to 1877 HIST 2013, History of the American People 1877 to Present HIST 2093, Animals in World History HUMN 1114H, Honors Roots of Culture to 500 C.E. (Honors only) HUMN 2114H, Honors Birth of Modern Culture, 1600-1900 (honors only) INST/PLSC 2813, Intro to International Relations & Global Studies 	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"> • PLSC 2003, American National Government • PLSC 2013, Intro to Comparative Politics • PLSC 2203, State and Local Government • PSYC 2003, General Psychology • RESM 2853, Leisure and Society • SOCI 2013, General Sociology • SOCI 2033, Social Problems • STEM 2003, The Art of STEM Communication 	
<p>STATE CORE FINE ARTS</p> <p>3 hrs</p>	<p>Choose 1:</p> <ul style="list-style-type: none"> • ARCH 1003, Architecture Lecture • ARHS 1003, Art Lecture • COMM 1003, Film Lecture • DANC 1003, Movement and Dance • ENGL 2023, Creative Writing 1 • HUMN 2114H, Honors Birth of Modern Culture 1600-1900 (honors only) • LARC 1003, The American Landscape • MLIT 1003, Experiencing Music • MLIT 1013, Music and Society (music majors only) • MLIT 1333, Popular Music • THTR 1003, Theatre Appreciation • THTR 1013, Musical Theatre Appreciation • THTR 1683, Acting I • THTR 1883, Acting 1 for Theatre majors 	<p>Classes taken in this category may not overlap in any other core category</p>
<p>STATE CORE HUMANITIES</p> <p>3 hrs</p>	<p>Choose 1: *</p> <ul style="list-style-type: none"> • AAST 2023, The African American Experience • ANTH 1033, Introduction to Archeology • ARCH 1013, Diversity and Design • CLST 1003, Introduction to Classical Studies: Greece • CLST 1013, Introduction to Classical Studies: Rome • COMM 1233, Media, Community and Citizenship • DANC 1003, Dance Appreciation • DASC 2133, Data Privacy & Ethics • ENGL 1213, Introduction to Literature • ENGL 2023, Creative Writing I • GNST 2003, Introduction to Gender Studies • HIST 1113, Institutions and Ideas of World Civilizations I • HIST 1123, Institutions and Ideas of World Civilizations II • HIST 2003, History of the American People to 1877 • HIST 2013, History of the American People 1877 to Present • HUMN 1124H*, Honors Equilibrium of Cultures 500-1600 (Honors only) • HUMN 2213, Introduction to World Religions • LALS 2013, Introduction to Latin American and Latino Studies • MRST 2013, Introduction to Medieval and Renaissance Studies • MUSY 2003, Music in World Cultures • PHIL 2003, Introduction to Philosophy • PHIL 2103, Introduction to Ethics • PHIL 2203, Logic • PHIL 2303, Human Nature and the Meaning of Life • PHIL 3103, Ethics and the Professions 	<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"> • THTR 1003, Theatre Appreciation • THTR 1013, Musical Theatre Appreciation • WLIT 1113, World Literature: Beginnings to 1650 CE • WLIT 1123, World Literature: 1650 CE to Present • Any Intermediate level foreign language numbered at the 2000 level 	
<p><u>MAJOR LANGUAGE REQUIREMENT</u></p> <p>3-6 hrs*</p>	<p>Get to the Elementary II (1013) level or higher of a foreign language:</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"> • Elementary I (1003) • Elementary II (1013) 	<p>Language Options: See the catalog for complete list</p> <p>Language Placement: See the WLLC website for a list of available placement exams for certain languages as well as information about credit by exam 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><u>MATHEMATICS</u></p> <p>8-12 hrs</p>	<ul style="list-style-type: none"> • MATH 1284c, Pre-Calculus OR MATH 1213, Plane Trigonometry (or math placement in to Calculus 1) • MATH 2554c, Calculus I (Required. pre-req: MATH 1284c, 1213, or math placement)* • MATH 2564c, Calculus II (Required. pre-req: MATH 2554c) 	<p>Students must earn a C in math courses for them to serve as pre-requisites.</p> <p>*MATH 2445, Calculus I with Review, can also count here.</p>
<p><u>CHEMISTRY</u></p> <p>8 hrs</p>	<ul style="list-style-type: none"> • CHEM 1103/1101L, University Chemistry I (Pre-req: MATH 1203 or higher or see course description for math placement) • CHEM 1123/1121L, University Chemistry II (Pre-req: CHEM 1103 and MATH 1203 or higher or see course description for math placement) 	<p>Chemistry 1 should be taken as early as possible since it is a pre-requisite for GEOS 2313.</p> <p>CHEM 1203/1201L and CHEM 1223/1221L, chemistry for majors I and II can also automatically substitute here.</p>
<p><u>PHYSICS</u></p> <p>8 hrs</p>	<p>Choose 1 sequence:</p> <ul style="list-style-type: none"> • PHYS 2013/2011L, College Physics I (Fall and summer only. pre-req: MATH 1203 and 1213 or MATH 1284 or MATH 2554c or see course description for math placement) • PHYS 2033/2031L (Spring and summer only. Pre-req: PHYS 2013 or 2054) <p>Or:</p> <ul style="list-style-type: none"> • PHYS 2054, University Physics I (Pre-req: NATH 2554c) • PHYS 2074, University Physics II (Pre-req: PHYS 2054 and MATH 2564c) 	
<p><u>GEOLOGY COURSES</u></p> <p>45 hrs</p>	<ul style="list-style-type: none"> • GEOS 1113/1111L Physical Geology or GEOS 1154, Geology for Majors • GEOS 2313 Mineralogy (Fall only. Pre-req: CHEM 1103 and GEOS 1113)** • GEOS 3413 Sedimentary Geology (Spring only. Pre-req: GEOS 2313) • GEOS 3514 Structural Geology (Spring only. Pre-req: GEOS 1113) • GEOS 3873 Geological Data Analysis (Spring only. Pre-req: MATH 2564c) • GEOS 4053 Geomorphology (Spring only. Pre-req: GEOS 3873) • GEOS 4063 Principles of Geochemistry (Fall only. Pre-req: CHEM 1123/1121L and GEOS 2313) OR GEOS 4433 Geophysics (Irregular. Pre-req: MATH 2564c and PHYS 2033/2031L and GEOS 3514) 	<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>**Students should plan to take GEOS 2313 as early as possible as it is a prerequisite for multiple other GEOS courses.</p>

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	<ul style="list-style-type: none"> • GEOS 4223 Stratigraphy and Sedimentation (Fall only. Pre-req: GEOS 3413) OR GEOS 3313 Igneous and Metamorphic Petrology • GEOS 4686 Geology Field Camp (Summer only. Pre-req: GEOS 3413 and GEOS 3514) • GEOS 4924 Earth System History (Spring only. Pre-req: GEOS 3413, GEOS 3514 and either GEOS 4223 or 3313) • 9 hrs GEOS 3000+ electives** 	<p>**Honors students will have some specific required courses that can overlap with these electives.</p> <p>**GEOS 399T and 499T transfer classes can count here as long as students still meet the 50% rule. Not all 99T classes pull into the degree audit automatically, so students may need to request classes be moved into the minor by their academic advisor</p>
<p><u>SCIENCE ELECTIVE</u></p> <p style="text-align: center;">3 hrs</p>	<p>Take 3 hrs of a science elective, 3000 level or higher, approved by faculty.</p>	<p>While not stated in the catalog, the department has approved any 3000+ BIOL, CHEM, GEOS, MATH, or PHYS class to count.</p>
<p><u>GENERAL ELECTIVES</u></p> <p style="text-align: center;">10-27 hrs</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 Graduation Checklist on page 2 for more information.</p>
<p><u>WRITING REQUIREMENT</u></p>	<p>The college writing requirement may be satisfied in one of two ways:</p> <ul style="list-style-type: none"> • Completion of a writing assignment in a GEOS 3000+ course documented using the writing requirement declaration form. • Successful honors thesis defense 	
<p><u>HONORS</u></p>	<p>Minimum Requirements for Honors:</p> <ul style="list-style-type: none"> • Maintain cumulative grade point average of 3.5 in all coursework (and a GEOS GPA of at least 3.3). • Complete a minimum of 12 hours of honors courses from the UofA (including GEOS 3901, GEOS 3911, GEOS 4972H, and GEOS 4982H). • Complete and defend Honors Thesis <p>See Catalog for full description of requirements.</p>	<p>Honors Thesis Timeline: Honors students should consistently check the honors thesis timeline to stay on track to complete your honors thesis.</p> <p>College Honors: 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"> • 2023-24 catalog requirements • 2022-23 and older catalog requirements