

MAJOR MAP FOR BACHELOR OF SCIENCE IN GEOLOGY CONCENTRATION IN GEOPHYSICS (GEOLBS-GEPH) 2020-21 THROUGH 2024-25 CATALOG YEARS

Name: _____ ID Number: _____ Date: _____ Anticipated Graduation Semester: _____

GEOLBS-GEPH Degree Snapshot

University Perspectives (0-1 hr)

_____ UNIV 10051, University Perspectives or exemption

State Core English Composition (0-6 hrs)

_____ ENGL 10103, Composition 1 or exemption

_____ ENGL 10203, Composition 2 or exemption

State Core US History or Government (3 hrs)

_____ US HIST/PLSC _____

State Core Mathematics (0-3 hrs)

_____ MATH 11003, College Algebra (or higher placement)

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 _____

Mathematics for Major (16-20 hrs)

_____ MATH 13004, Pre-Calculus OR MATH 12003, Plane Trigonometry (or [math placement](#))

_____ MATH 24004, Calculus I (Required)

_____ MATH 25004, Calculus II (Required)

_____ MATH 26004, Calculus III (Required)

_____ MATH 25804, Elementary Differential Equations (Required)

Chemistry (8 hrs)

_____ CHEM 14103/14101, University Chemistry I

_____ CHEM 14203/14201, University Chemistry II

Physics Foundations (12 hrs)

_____ PHYS 20304, University Physics I

_____ PHYS 20404, University Physics II

_____ PHYS 20504, University Physics III

Geophysics courses (45 hrs)

_____ GEOL 11003/11001 Physical Geology or GEOS 11504, Geology for Majors

_____ GEOS 23103 Mineralogy

_____ GEOS 34103, Sedimentary Geology

_____ GEOS 35104, Structural Geology

_____ GEOS 40503, Geomorphology

_____ GEOS 42203, Stratigraphy and Sedimentation

_____ GEOS 44303, Geophysics

_____ GEOS 49204, Earth System History

_____ GEOS 46806, Geology Field Camp

_____ PHYS 31103, Analytical Mechanics

_____ PHYS 34503, Electromagnetic Theory I

_____ PHYS 36103, Modern Physics

_____ PHYS 40703, Introduction to Quantum Mechanics

_____ PHYS 49901, Physics Senior Seminar

General Electives (4-25 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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Advising Notes

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):

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Graduation Checklist (does your plan include the following):

- 2.0 minimum overall UofA GPA (Courses taken at other colleges or universities are not factored into this GPA)
- All state minimum core requirements
- All Major(s)/Minor(s) requirements
- [Writing requirement](#) complete
- At least 50% of each major/minor taken from UofA
- 24 hours of 30000+ classes exclusively from Fulbright College of Arts and Sciences classes
- 30 hours of 30000+ classes exclusively from the University of Arkansas. This can include courses taken for the 24-hour rule.
- 40 hours of upper-level classes. (30000+ or 20000+ 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)

Program Information:

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 10051, University Perspectives (or UNIV 100H1) 	Or equivalent from another University of Arkansas college. (AFLS 102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H), HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB 11101, WCOB/BUSI 111H1) 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 10103, Composition 1 or SAT/ACT exemption (or ENGL 101H3) ENGL 10203, Composition 2 or SAT/ACT exemption (or ENGL 102H3) 	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 20003, History of the American People to 1877 HIST 20103, History of the American People 1877 to Present PLSC 20003, American National Government (or PLSC 200H3) 	*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 11003, 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 11003, Principles of Agriculture Microeconomics (or AGECE 110H3) AGEC 21003, Principles of Agriculture Macroeconomics (or AGECE 210H3) ANTH 10203, Intro to Cultural Anthropology (or ANTH 102H3) COMM 10203, Communication in a Diverse World (or ANTH 102H3) ECON 21003, Principles of Macroeconomics (or ECON 210H3) ECON 22003, Principles of Microeconomics (or ECON 220H3) ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies GEOG 11103, Human Geography (or GEOG 111H3) GEOG 21003, World Regional Geography (or GEOG 210H3) HDFS 14003, Life Span Development (HDFS 140H3) HDFS 24103, Family Relations (or HDFS 241H3) 	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"> • HDFS 26003, Rural Families & Communities (HDFS 260H3) • HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3) • HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3) • HIST 20003, History of the American People to 1877 • HIST 20103, History of the American People 1877 to Present • HIST 20903, Animals in World History • HUMN 111H4, Honors Roots of Culture to 500 C.E. (Honors only) • HUMN 211H4, Honors Birth of Modern Culture, 1600-1900 (honors only) • INST/PLSC 28103, Intro to International Relations & Global Studies (or INST/PLSC 281H3) • JOUR 10203, Media and Society • PLSC 20003, American National Government (or PLSC 200H3) • PLSC 20103, Intro to Comparative Politics • PLSC 21003, State and Local Government • PSYC 20003, General Psychology (or PSYC 200H3) • RESM 28503, Leisure and Society (or RESM 285H3) • SOCI 10103, General Sociology (or SOCI 201H3) • SOCI 20103, Social Problems • STEM 20003, 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 10003, Architecture Lecture (or ARCH 100H3) • ARHS 10003, Art Lecture (or ARHS 100H3) • COMM 10003, Film Lecture (or COMM 100H3) • DANC 10003, Movement and Dance • ENGL 20103, Creative Writing 1 • HUMN 211H4, Honors Birth of Modern Culture 1600-1900 (honors only) • LARC 10003, The American Landscape (or LARC 100H3) • MLIT 10003, Experiencing Music (or MLIT 100H3) • MLIT 10103, Music and Society (music majors only. Or MLIT 101H3) • MLIT 13303, Popular Music • THTR 10003, Theatre Appreciation (or THTR 100H3) • THTR 10103, Musical Theatre Appreciation (or THTR 101H3) • THTR 16803, Acting I • THTR 18803, Acting 1 for Theatre majors 	<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>
<p>STATE CORE HUMANITIES</p> <p>3 hrs</p>	<p>Choose 1: *</p> <ul style="list-style-type: none"> • AAST 20203, The African American Experience • ANTH 10303, Introduction to Archeology • ARCH 10103, Diversity and Design (or ARCH 101H3) • CLST 10003, Introduction to Classical Studies: Greece (or CLST 100H3) • CLST 10103, Introduction to Classical Studies: Rome (or CLST 101H3) 	<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"> • COMM 12303, Media, Community and Citizenship (or COMM 123H3) • DANC 10003, Dance Appreciation • DASC 21303, Data Privacy & Ethics • ENGL 11103, World Literature: Beginnings to 1650 CE (or ENGL 111H3) • ENGL 11203, World Literature: 1650 CE to Present (or ENGL 112H3) • ENGL 12103, Introduction to Literature (or ENGL 121H3) • ENGL 20103, Creative Writing I • GNST 20003, Introduction to Gender Studies (or GNST 200H3) • HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3) • HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3) • HIST 20003, History of the American People to 1877 • HIST 20103, History of the American People 1877 to Present • HUMN 112H4, Honors Equilibrium of Cultures 500-1600 (Honors only) • HUMN 22103, Introduction to World Religions • LALS 20103, Introduction to Latin American and Latino Studies • MRST 20103, Introduction to Medieval and Renaissance Studies • MUSY 20003, Music in World Cultures (or MUSY 200H3) • PHIL 20003, Introduction to Philosophy (or PHIL 200H3) • PHIL 21003, Introduction to Ethics • PHIL 22003, Logic • PHIL 23003, Human Nature and the Meaning of Life • PHIL 31003, Ethics and the Professions • THTR 10003, Theatre Appreciation (or THTR 100H3) • THTR 10103, Musical Theatre Appreciation (or THTR 101H3) • Any Intermediate level foreign language numbered at the 20000 level 	
<p><u>MATHEMATICS</u></p> <p>16-20 hrs</p>	<ul style="list-style-type: none"> • MATH 13004, Pre-Calculus OR MATH 12003, Plane Trigonometry (or math placement in to Calculus 1) • MATH 24004, Calculus I (Required. pre-req: MATH 13004, 12003, or math placement)* • MATH 25004, Calculus II (Required. pre-req: MATH 24004) • MATH 26004, Calculus III (pre-req: MATH 25004) • MATH 25804, Elementary Differential Equations (Pre-req: MATH 25004) 	<p>Students must earn a C in math courses for them to serve as pre-requisites.</p> <p>*MATH 24005, 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 14103/14101, University Chemistry I (Pre-req: MATH 11003 or higher or see course description for math placement) • CHEM 14203/14201, University Chemistry II (Pre-req: CHEM 14103 and MATH 11003 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 23103.</p> <p>CHEM 12073/12071 and CHEM 12283/12281, chemistry for majors I and II can also automatically substitute here.</p>
<p><u>PHYSICS FOUNDATIONS</u></p>	<ul style="list-style-type: none"> • PHYS 20304, University Physics I (Pre-req: MATH 24004) 	

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12 hrs	<ul style="list-style-type: none"> • PHYS 20404, University Physics II (Pre-req: PHYS 20304 and MATH 25004) • PHYS 20504, University Physics III (Pre-req: PHYS 20404. Co-Req: MATH 26004) 	
GEOPHYSICS COURSES 45 hrs	<ul style="list-style-type: none"> • GEOL 11103/11101, Physical Geology or GEOS 11504, Geology for Majors • GEOS 23103, Mineralogy (Fall only. Pre-req: CHEM 14103 and GEOL 11103)** • GEOS 40503, Geomorphology (Spring only. Pre-req: GEOS 38703)*** • GEOS 34103, Sedimentary Geology (Spring only. Pre-req: GEOS 23103) • GEOS 35104, Structural Geology (Spring only. Pre-req: GEOL 11103) • GEOS 42203, Stratigraphy and Sedimentation (Fall only. Pre-req: GEOS 34103) • GEOS 44303, Geophysics (Irregular. Pre-req: MATH 25004 and PHYS 20203/20201 and GEOS 35104) • GEOS 49204, Earth System History (Spring only. Pre-req: GEOS 34103, GEOS 35104 and either GEOS 42203 or 33103) • GEOS 46806, Geology Field Camp (Summer only. Pre-req: GEOS 34103 and GEOS 35104) • PHYS 31103, Analytical Mechanics (Fall only. Co- or pre-req: MATH 25804) • PHYS 34503, Electromagnetic Theory I (Spring only. Co- or pre-req: MATH 25804. Pre-req: MATH 26004 and PHYS 20404) • PHYS 36103, Modern Physics (Pre-req: PHYS 20404) • PHYS 40703, Introduction to Quantum Mechanics (Fall only. Pre-req: PHYS 36103, MATH 26004, and MATH 25804) • PHYS 49901, Physics Senior Seminar 	<p>*GEOS 11504 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 23103 as early as possible as it is a prerequisite for multiple other GEOS courses.</p> <p>***GEOS 40503 is not listed as a requirement in 2022 and older catalogs, but it is a standing substitution for GEOS 3383, which is was listed as a requirement but is not taught anymore. GEOS 40503 also has an additional pre-requisite, so students will need to take GEOS 38703 as well.</p> <p>Honors students will also have some additional required courses.</p>
GENERAL ELECTIVES 4-25 hrs	Hours will vary depending on math placement, language placement, and whether a student is exempt from ENGL 10103 and 10203.	Some general electives may need to be upper level to meet college and university residency requirements. See Graduation Checklist on page 3 for more information.
WRITING REQUIREMENT	<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 30000+ course documented using the writing requirement declaration form. • Successful honors thesis defense 	
HONORS	<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 390H1, GEOS 391H1, GEOS 497H2, and GEOS 498H2). • 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 Plan need to complete additional requirements. Those can be found on the advising website (consult with an academic advisor if you have questions about your catalog year): Academic Planning Resources</p>