

MAJOR MAP FOR BACHELOR OF ARTS IN GEOGRAPHY CONCENTRATION IN CARTOGRAPHY/REMOTE SENSING GIS (GEOGBA-CTRS) 2015-16 THROUGH 2023-24

Last Updated: August 9, 2023

GEOGBA-CTRS 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 (3 hrs)

_____ **MATH** _____

State Core Natural Sciences w/ labs (8 hrs)

_____ **GEOS 1113/1111L**, Physical Geology or **GEOS 1154**, Geology for Majors (required in major)

_____ **GEOS 1133/1131L**, Earth Science (required in major)

State Core Social Sciences (9 hrs)

_____ **GEOS 1123**, Human Geography (required in major)

_____ **GEOS 2003**, World Regional Geography (required in major)

_____ **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)

Geography Courses (30 hrs, in addition to those listed in the state core)

_____ **GEOS 3023**, Introduction to Cartography

_____ **GEOS 3543**, Geospatial Applications and Information Science

_____ **GEOS 3213**, Principles of Remote Sensing

_____ **GEOS 3000+ Regional** _____

_____ **GEOS 3000+ Regional** _____

_____ **GEOS 3000+ Topical** _____

_____ **GEOS 3000+ Topical** _____

_____ **GEOS 3000+ Technical*** _____

Choose 3:* (one of these courses may also count as the technical elective)

_____ **GEOS 4523**, Cartographic Design and Production

_____ **GEOS/ANTH 4553**, Introduction to Raster GIS

_____ **GEOS/ANTH 4583**, Enterprise and Multiuser GIS

_____ **GEOS/ANTH 4593**, Introduction to Global Positioning Systems and Global Navigation Satellite Systems

_____ **STAT 3003**, Statistical Methods

_____ **CVEG 2053**, Surveying Systems

General Electives (48-58 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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Department Information:

Faculty who have exception/substitution authority: Jason Tullis and Katia Fernandes

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
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 3 hrs	Choose 1: <ul style="list-style-type: none"> MATH 1203, College Algebra MATH 1313, Quantitative Reasoning MATH 1514, Calculus with Algebra and Trigonometry STAT 2303, Principles of Statistics Any higher-level mathematics course with MATH 1203 as a pre-requisite 	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 8 hrs	<ul style="list-style-type: none"> GEOS 1113/1111L, Physical Geology or GEOS 1154, Geology for Majors (Required in major) GEOS 1133/1131L, Earth Science (Required in major) 	*GEOS 1154 is not listed in the catalog but has been approved to count here via standing substitution while the department works to add it to a future catalog
STATE CORE SOCIAL SCIENCES 9 hrs	<ul style="list-style-type: none"> GEOS 1123, Human Geography (required in major) GEOS 2003, World Regional Geography (required in major) Choose 1: * <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 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) 	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"> • HUMN 2114H, Honors Birth of Modern Culture, 1600-1900 (honors only) • INST/PLSC 2813, Intro to International Relations & Global Studies • 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 	<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"> • PHIL 2103, Introduction to Ethics • PHIL 2203, Logic • PHIL 2303, Human Nature and the Meaning of Life • PHIL 3103, Ethics and the Professions • 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 style="text-align: center;"><u>MAJOR LANGUAGE REQUIREMENT</u></p> <p style="text-align: center;">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 style="text-align: center;"><u>GEOGRAPHY COURSES</u></p> <p style="text-align: center;">30 hrs</p> <p>In addition to GEOS 1123, 2003, 1113/1131L, and 1133/1131L which are listed in the state core</p>	<ul style="list-style-type: none"> • GEOS 3023, Introduction to Cartography • GEOS 3543, Geospatial Applications and Information Science • GEOS 3213, Principles of Remote Sensing • 2 GEOS 3000+ Regional Courses • 2 GEOS 3000+ Topical Courses • 1 GEOS 3000+ Technical (Requirement met with one of the three courses taken below) <p>Choose 3:</p> <ul style="list-style-type: none"> ○ GEOS 4523, Cartographic Design and Production ○ GEOS/ANTH 4553, Introduction to Raster GIS ○ GEOS/ANTH 4583, Enterprise and Multiuser GIS ○ GEOS/ANTH 4593, Introduction to Global Positioning Systems and Global Navigation Satellite Systems ○ STAT 3003, Statistical Methods ○ CVEG 2053, Surveying Systems 	<p>Regional Electives:</p> <p>GEOS 4043 Geography of the Middle East or GEOS 4043H Honors Geography of the Middle East GEOS 4073 Urban Geography GEOS 430V Internship in Physical Geography (could also be moved to Topical) GEOS 437V, Geology Field Trip (could also be moved to Topical) GEOS 4393 American Public Lands GEOS 4563, Geology of Our National Parks (could also be moved to Topical) GEOS 4686, Geology Field Camp (could also be moved to Topical) GEOS 4783 Geography of Europe GEOS 4813 Geography of Eurasia</p> <p>Topical Electives):</p> <p>GEOS 3033 Building Materials Field Studies GEOS 3043 Sustaining Earth or GEOS 3043H Honors Sustaining Earth GEOS 3333 Oceanography GEOS 3733, Geospatial Data Science in Public Health (could also be moved to Technical) GEOS 4033 Hydrology GEOS 4053 Geomorphology GEOS 4063 Principles of Geochemistry GEOS 4073 Urban Geography GEOS 4093 History and Philosophy of Geography GEOS 4113 Global Change GEOS 4233 Geography of Religion and Sacrality GEOS 4243 Political Geography GEOS 430V Internship in Physical Geography (could also be moved to Regional) GEOS 4353, Meteorology GEOS 4363 Climatology GEOS 437V, Geology Field Trip (could also be moved to Regional) GEOS 4383(H) Honors Hazard & Disaster Assessment, Mitigation, Risk & Policy GEOS 4393 American Public Lands GEOS 4473, Applied Climatology GEOS 4483 Severe Weather GEOS 4493, Geography of Political Violence GEOS 4563, Geology of Our National Parks (could also be moved to Regional) GEOS 4693 Environmental Justice (no longer taught but counts if taken previously) GEOS 4673, Volcanology GEOS 4686, Geology Field Camp (could also be moved to Regional) GEOS 4924, Earth System History</p>

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		<p>GEOS 4933 Ancient Forest Science and Sustainability</p> <p><u>Courses that can count in the GEOGBA but category varies depending on topic (Dept approval required to indicate where they count):</u></p> <p>GEOS 360V Undergraduate Special Problems GEOS 3873 Geospatial Data Analysis GEOS 3901 Junior Honors Course GEOS 3911 Junior Honors Course GEOS 399VH Honors Course GEOS 410V Honors Special Problems in Geosciences GEOS 4972H, Senior Honors Course I GEOS 4982H, Senior Honors Course II</p> <p><u>GEOS courses that do not count in the GEOGBA:</u></p> <p>GEOS 3063 Geology of Arkansas GEOS 3413 Sedimentary Geology GEOS 3514 Structural Geology GEOS 4083 Economic Geology GEOS 4153 Karst Hydrogeology GEOS 4223 Stratigraphy and Sedimentation GEOS 4253 Petroleum Geology GEOS 4333, Igneous and Metamorphic Petrology GEOS 4433, Geophysics GEOS 4533, Introduction to Petroleum Geophysics GEOS 4663, Low-Temperature Geochemistry of Natural Waters GEOS 4993, Dynamics of Sediment Transport</p>
<p><u>GENERAL ELECTIVES</u> 48-58 hrs</p>	<p>Hours will vary depending on language placement, and whether a student is exempt from ENGL 1013 and 1023.</p>	<p>Some general electives will 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><u>Minimum Requirements for Honors:</u></p> <ul style="list-style-type: none"> • Maintain cumulative grade point average of 3.5 in all coursework. • Complete a minimum of 12 hours of honors courses from the UofA (including at least 3 hours of GEOS 399VH). • Complete and defend Honors Thesis <p>See Catalog for full description of requirements.</p>	<p><u>Honors Thesis Timeline:</u> Honors students should consistently check the honors thesis timeline to stay on track to complete your honors thesis.</p> <p><u>College Honors:</u> Students who also are following the College Honors Core for Bachelor of Arts 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