Last Updated: March 13, 2023

MATHBS-MATH2 Degree Snapshot

University Perspectives (0-1 hr)	MATH 3113, Introduction to Abstract Algebra I
UNIV 1001, University Perspectives or exemption	MATH 4513, Advanced Calculus 1
	MATH 4933, Mathematics Major Seminar
State Core English Composition (0-6 hrs)	CSCE 2004, Programming Foundations I
ENGL 1013 , Composition 1 or exemption	
ENGL 1023 , Composition 2 or exemption	Pure Concentration (18 hrs)
	MATH 4113, Introduction to Abstract Algebra II
State Core US History or Government (3 hrs)	(pre-req: MATH 1313) OR MATH 4523, Advanced
US HIST/PLSC	Calculus II (pre-req: MATH 4513)
	MATH 4443, Complex Variables (pre-req: MATH
State Core Mathematics (0 hrs)	2803 or 2603 and MATH 2584c)
Met with major requirements.	MATH or STAT 3000+ (or CSCE 4133)
Notural Sciences w/ John for MATHES (9 hrs)	MATH or STAT 3000+
Natural Sciences w/ labs for MATHBS (8 hrs) Science w/ lab	MATH or STAT 3000+
Science w/ lab	MATH or STAT 3000+
Science w/ lab	
State Core Social Sciences (9 hrs)	General Electives (23-40 hrs)
Social Science	How you use these hours will depend on your educational and career goals.
Social Science	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 sectio
Social Science	to track which classes you've taken outside the above requirements.
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State Core Fine Arts (3 hrs)	
Fine Art	
State Core Humanities (3 hrs)	
Humanities	
MATHBS Core (36-46 hrs)	
MATH 1203, College Algebra (or <u>placement</u> in to	
higher math)	
MATH 1284c, Pre-Calculus OR MATH 1213, Plane	
Trigonometry (or <u>placement</u> in to higher math)	
MATH 2554c, Calculus I	
MATH 2564c, Calculus II	
MATH 2574, Calculus III	
MATH 2584, Elementary Differential Equations	
MATH 2803/2801L, Transition to Advanced	
Mathematics	
MATH 3093, Abstract Linear Algebra	
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Graduation Plan

Use the following additional resources, in addition to this major map, to complete your graduation plan (<u>Catalog</u>, and your <u>Degree Audit</u> 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)

The Applied Concentration is a program for the student who wishes to prepare for either applied work in mathematics or graduate work in some field other than mathematics or statistics.

Faculty who have exception/substitution authority: Matthew Clay

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

<u>GPA (Grade Point Average)</u>: Every student must have at least a 2.00 cumulative grade point average to be eligible to graduate from the University of Arkansas. A 2.00 cumulative grade-point average on all work completed in the department of mathematical sciences will be required for graduation with a B.A. or B.S. degree.

Please visit https://catalog.uark.edu/undergraduatecatalog for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the courses of instruction page for course descriptions.

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		Or equivalent from another University of Arkansas college. (AFLS
PERSPECTIVES	UNIV 1001, University Perspectives	1023H, ARSC 1201, GNEG 1111, HIST 1003(H), PLSC 1003, WCOB
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0-1 hr		, ,
		Note : students who transfer to the University of Arkansas with at
		least 24 credit hours will have this requirement waived.
STATE CORE		See Catalog for information about placement and/or exemption.
COMPOSITION	ENGL 1013, Composition 1 or SAT/ACT exemption	
	ENGL 1023, Composition 2 or SAT/ACT exemption	
0-6 hrs		
STATE CORE US	Choose 1: *	*Some courses may appear as options in multiple areas of the
HISTORY or GOVERNMENT	 HIST 2003, History of the American People to 1877 HIST 2013, History of the American People 1877 to 	State Core. You can only count each course 1 time in the State Core
GOVERNIVIENT	Present	and will need unique courses in each of the content areas below.
3 hrs	PLSC 2003, American National Government	
STATE CORE	Choose 1:	Based on ACT/SAT or other math placement scores, students may
MATHEMATICS	MATH 1203, College Algebra	need to enroll in additional remediation related courses. See
	MATH 1313, Quantitative Reasoning	catalog or math placement website for additional information.
3 hrs	MATH 1514, Calculus with Algebra and Trigonometry	
	STAT 2303, Principles of Statistics	
	Any higher-level mathematics course with MATH 1203 as	
	a pre-requisite	
NATURAL	Choose 1 sequence of 2 classes from the same department:	Some of these classes will have pre-requisites.
SCIENCES FOR	Choose I sequence of 2 classes from the same department.	Some of these classes will have pre-requisites.
MATHBS	Dielow.	
	Biology:	*If students take DIOL 2012/2011, the contill also have to take an
8 hrs	BIOL 1543/1541L, Principles of Biology There the age 4 force helpers	*If students take BIOL 2013/2011L, they will also have to take an
	Then choose 1 from below:	additional natural science class from the university core <u>list</u> .
	BIOL 1603/1601L, Principles of Zoology	
	BIOL 1613/1611L, Plant Biology	
	BIOL 2013/2011L, General Microbiology*	
	OR	
	Chemistry:	
	CHEM 1103/1101L; University Chemistry I	
	CHEM 1123/1121L, University Chemistry II	
	OR	
	Geosciences:	
	GEOS 1113/1111L, Physical Geology	
	GEOS 1113/1111L, Physical GeologyGEOS 1133/1131L, Earth Science	
	GEOS 1133/1131L, Earth Science	
	GEOS 1133/1131L, Earth Science OR	
	• GEOS 1133/1131L, Earth Science OR Physics:	
STATE CORE	 GEOS 1133/1131L, Earth Science OR Physics: PHYS 2054, University Physics I 	Students must take classes from at least two departments in the
STATE CORE SOCIAL SCIENCES	 GEOS 1133/1131L, Earth Science OR Physics: PHYS 2054, University Physics I PHYS 2074, University Physics II 	Students must take classes from at least two departments in the Social Sciences category.
SOCIAL SCIENCES	GEOS 1133/1131L, Earth Science OR Physics: PHYS 2054, University Physics I PHYS 2074, University Physics II Choose 3: *	
	GEOS 1133/1131L, Earth Science OR Physics: PHYS 2054, University Physics I PHYS 2074, University Physics II Choose 3: * AGEC 1103, Principles of Agriculture Microeconomics	

	ECON 2013, Principles of Macroeconomics	*Some courses may appear as options in multiple areas of the
	ECON 2023, Principles of Microeconomics	State Core. You can only count each course 1 time in the State Core
	ECON 2143, Basic Economics: Theory and Practice	and will need unique courses in each of the content areas below.
	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	
	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	
STATE CORE FINE	Choose 1:	Classes taken in this category may not overlap in any other core
ARTS	ARCH 1003, Architecture Lecture	category
3 hrs	ARHS 1003, Art Lecture	
33	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 1883, Acting 1 for Theatre majors	
STATE CORE	Choose 1: *	*Some courses may appear as options in multiple areas of the
<u>HUMANITIES</u>	AAST 2023, The African American Experience	State Core. You can only count each course 1 time in the State Core
3 hrs	ANTH 1033, Introduction to Archeology	and will need unique courses in each of the content areas below.
5 HIS	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	
	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 LAIC 2013, Introduction to Latin American and Lating	
	LALS 2013, Introduction to Latin American and Latino Caudian	
	Studies	
	MRST 2013, Introduction to Medieval and Renaissance Chadian	
	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	
	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	
MATHBS CORE	MATH 1203, College Algebra (may not be required based	The students first math course also meets university core
	on math placement)	requirements.
36-46 hrs	MATH 1284c, Pre-Calculus OR MATH 1213, Plane	
	Trigonometry (may not be required based on math	Students must earn a C or higher to use a class as a pre-requisite.
	placement)	
	MATH 2554c, Calculus I (pre-req: MATH 1284c, 1213, or	
	math placement)*	See <u>catalog</u> for additional pre-requisite information for individual
	MATH 2564c, Calculus II (pre-req: MATH 2554c)	classes.
	MATH 2574, Calculus III (pre-req MATH 2564c)	
	MATH 2584, Elementary Differential Equations (pre-req:	*MATH 2445, Calculus I with review, can also be taken here.
	MATH 2564c)	***************************************
	MATH 2803/2801:, Transition to Advanced Mathematics	**MATH 2803 should be taken as early as possible. While not listed
	(co- OR pre-req: MATH 2554c)**	in the major as a requirement, MATH 2801L is a co-requisite class
	 MATH 3093, Abstract Linear Algebra (pre-req: MATH 2803. co- or pre-req: MATH 2564c)*** 	that needs to be taken along with MATH 2803.
	MATH 3113, Introduction to Abstract Algebra I (pre-req:	**Students may not receive credit for both MATH 3093 and MATH
	MATH 2803 and either MATH 3093 or 3083)	3083
	MATH 4513, Advanced Calculus 1 (pre-req: MATH 2574c,	
	MATH 2803, and either MATH 3093 or 3083)****	***Students may not receive credit for both MATH 3513 and 4513
	MATH 4933, Mathematics Major Seminar (Spring only,	in the major.
	pre-req: senior standing and mathematics major)	
	CSCE 2004, Programming Foundations I (pre-req: MATH)	
DUDE	2554c)	* Chudonte who hake CCCE 4122 and would like to count to fair the
<u>PURE</u> CONCENTRATION	 MATH 4113, Introduction to Abstract Algebra II (pre-req: MATH 1313) OR MATH 4523, Advanced Calculus II (pre- 	* Students who take CSCE 4133 and would like to count it for the 24 hour rule may request this using the General College Petition.
	req: MATH 4513)	27 hour rule may request this using the general conege retition.
18 hrs	104. MATH 4010)	

	 MATH 4443, Complex Variables (pre-req: MATH 2803 or 2603 and MATH 2584c) 12 hrs MATH or STAT 3000+ (or CSCE 4133*) 	Honors MATH requirements can count in math electives category. See below for more details. MATH or STAT 399T or 499T courses may count in the MATH/STAT 3000+ requirement 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.
UPPER-LEVEL	Completion of 8 additional hours at the 3000-level or	*This requirement is not enforced. The department has
COURSE	higher not in Mathematics or Statistics chosen with	reviewed the requirement and is in the process of removing
REQUIREMENT	department approval.*	it from a future catalog. Students still need 120 total hours
0 hrs *		in their degree but may take any general electives they
UIIIS		would like in lieu of this requirement. For this reason, this
		requirement is not listed in the degree snapshot on page 1.
GENERAL ELECTIVES 23-40 hrs	Hours will vary depending on math placement and whether a student is exempt from ENGL 1013 and 1023.	Some general electives may need to be upper level to meet college and university residency requirements. See <u>Graduation Checklist</u> on page 2 for more information.
WRITING	The college writing requirement may be satisfied in one of two	
REQUIREMENT	ways:Upon completion of MATH 4933Successful honors thesis defense	
<u>HONORS</u>	 Minimum Requirements for Honors: Maintain cumulative grade point average of 3.5 in all coursework (as well as a 3.5 GPA in all CSCE and MATH/STAT courses) Students may not remain in the honors program if they earn a D or F in any MATH/STAT course. Complete a minimum of 12 hours of honors courses from the UofA (including at least 2 hrs of MATH 498V taken at least one semester before graduation). Complete and defend Honors Thesis 	Honors Thesis Timeline: Honors students should consistently check the honors thesis timeline to stay on track to complete your honors thesis. College Honors: Students who also are following the College Honors Core for Bachelor of Science programs need to also complete those additional requirements
	See <u>Catalog</u> for full description of requirements.	