ame:	ID Number:	Date:	Anticipated Graduation Semester:
	MATHBS-M	ATH2 Deg	gree Snapshot
University Perspect	<u>ives</u> (0-1 hr)		MATH 31103, Introduction to Abstract Algebra I
	University Perspectives or exemption		MATH 45103, Advanced Calculus 1
			MATH 49303, Mathematics Major Seminar
State Core English C	<u>Composition</u> (0-6 hrs)		CSCE 20004, Programming Foundations I
ENGL 10103,	Composition 1 or exemption		, 0 0
ENGL 10203,	Composition 2 or exemption		Pure Concentration (18 hrs)
			MATH 44403, Complex Variables
State Core US Histo	<u>ry or Government</u> (3 hrs)		MATH or STAT 30000+ (or CSCE 41303)
US HIST/PLSC	C		MATH or STAT 30000+
			Choose 3:
State Core Mathem			 MATH 32003, Number Theory
Met with major requ	uirements.		MATH 41103, Introduction to Abstract Algebra II
			MATH 45003, Differential Geometry
	<u>/ labs for MATHBS</u> (8 hrs)		MATH 45203, Advanced Calculus II
	b b		
Science w/ la			General Electives (23-40 hrs)
State Core Social Sc	iences (9 hrs)		How you use these hours will depend on your educational and career goals
	e		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 how to plan.
	e		to track which classes you've taken outside the above requirements.
	e		
State Core Fine Arts	s (3 hrs)		
State Core Humanit	: <mark>ies</mark> (3 hrs)		
Humanities _			
MATHBS Core (36-4	6 hrs)		
MATH 11003	, College Algebra (or <u>placement</u> in to		
higher math)			
MATH 13004	, Pre-Calculus OR MATH 12003, Plane		
Trigonometry	(or <u>placement</u> in to higher math)		
MATH 24004	, Calculus I		
MATH 25004	, Calculus II		
MATH 26004	, Calculus III		
MATH 25804	, Elementary Differential Equations		
	/28001, Transition to Advanced		
Mathematics	-		
	, Abstract Linear Algebra		

Advising Notes

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 F	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):

 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:

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.

<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 <u>https://catalog.uark.edu/undergraduatecatalog</u> for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the <u>courses of instruction</u> 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 10051, University Perspectives (or UNIV 100H1)	102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H),
		HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB
0-1 hr		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		See <u>Catalog</u> for information about placement and/or exemption.
COMPOSITION	ENGL 10103, Composition 1 or SAT/ACT exemption (or	
0 C hus	ENGL 101H3)	
0-6 hrs	ENGL 10203, Composition 2 or SAT/ACT exemption (or	
	ENGL 102H3)	
STATE CORE US	Choose 1: *	*Some courses may appear as options in multiple areas of the
HISTORY or GOVERNMENT	 HIST 20003, History of the American People to 1877 HIST 20103, History of the American People 1877 to 	State Core. You can only count each course 1 time in the State Core
OOVERNMENT	Present	and will need unique courses in each of the content areas below.
3 hrs	PLSC 20003, American National Government (or PLSC	
	200H3)	
STATE CORE	Met with courses in the major	Based on ACT/SAT or other math placement scores, students may
MATHEMATICS		need to enroll in additional remediation related courses. See
2 h		catalog or math placement website for additional information.
3 hrs		
NATURAL	Choose 1 sequence of 2 classes from the same department:	Some of these classes will have pre-requisites.
SCIENCES FOR		
MATHBS	Biology:	
8 hrs	 BIOL 10103/10101, Principles of Biology 	*If students take BIOL 2003/2001, they will also have to take an
01113	Then choose 1 from below:	additional natural science class from the university core list.
	BIOL 10503/10501, Principles of Zoology	
	BIOL 10303/10301, Plant Biology	
	BIOL 2003/2001, General Microbiology*	
	OR	
	Chemistry:	
	CHEM 14103/14101; University Chemistry I	
	CHEM 14203/14201, University Chemistry II	
	OR	
	Geosciences:	
	GEOL 11103/11101, Physical Geology	
	GEOL 11203/11201, Earth Science	
	OR	
	Physics:	
	-	
	 PHYS 10304, University Physics I PHYS 10404, University Physics II 	
STATE CORE	Choose 3: *	Students must take classes from at least two departments in the
SOCIAL SCIENCES	AGEC 11003, Principles of Agriculture Microeconomics	Social Sciences category.
	(or AGEC 110H3)	
9 hrs	· · ·	

 ArTH 10203, hitro to Cultural Anthropology (or ANTH 10213) ArTH 10203, Communication in a Diverse World (or ANTH 10213) COMM 10203, Communication in a Diverse World (or ANTH 10213) ECON 22003, Principles of Microeconomics (or ECON 22013, Principles of Microeconomics (or ECON 22014); ECON 22003, Principles of Microeconomics (or ECON 22014); ECON 21403, Basic Economics: Theory and Practice (or ECON 22003, Introduction to Educational Studies of ECO 21003, World Regional Geography (or 6EOG 21014); EGOS 21003, World Regional Geography (or 6EOG 21114); EGOS 21003, World Regional Geography (or 6EOG 21014); HOFS 24003, Entry telds of World Civilizations I (or HIST 11193), Institutions and Ideas of World Civilizations I (or HIST 11193, Institutions and Ideas of World Civilizations II (or HIST 11193, Institutions and Ideas of World Civilizations II (or HIST 1213); HIST 2003, History of the American People to 1877 HIST 2003, History of the American People 1877 to Present HIST 2003, History of the American People to 1877 HIST 2003, History of the American People to 1877 HIST 2003, History of the American People to 1877 HIST 2003, History of the American People to 1877 HIST 2003, History of the American People 1877 to Present HIST 2003, History of the American People 1877 to Present HIST 2003, Animals in World History HUMM 12114, Honors Botis of Culture to 500 C.E. (Honors only) NIST/PISC 28103, Intro to International Relations & Global Sciety or FISX 2003; General Psychology (or PSYC 20013) PISC 2013, Intro to Comparative Politics PISC 2013, Intro to Comparative Politics PISC 2013, State and Locide Government (or PISC 2005), Essure and Society or FISX 20013; State and Locides (or NIST/PISC 28143) SOCI 2013, Creative		(MATHBS-MATH2) 2022-23 THROUG	H 2024-25 CATALOG YEARS
STATE CORE FINE ARTSChoose 1: **Some courses may appear as options in multiple areas of th State Core. You can only count each course 1 time in the Stat Core and will need unique courses in each of the content areas below.3 hrsCOMM 10003, Film Lecture (or ARHS 100H3) • DANC 10003, Movement and Dance • ENGL 20103, Creative Writing 1Communication of the content areas below.		 (or AGEC 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) HDFS 26003, Rural Families & Communities (HDFS 260H3) HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3) HIST 20003, History of the American People to 1877 HIST 20003, 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, Adeia and Society PLSC 20003, American National Government (or PLSC 200H3) RESM 28503, Leisure and Society (or RESM 285H3) SOCI 10103, General Psychology (or SOCI 201H3) SOCI 20103, Social Problems 	*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
ARTS• ARCH 10003, Architecture Lecture (or ARCH 100H3)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.3 hrs• COMM 10003, Film Lecture (or COMM 100H3)Core and will need unique courses in each of the content areas below.• DANC 10003, Movement and Dance 		STEM 20003, The Art of STEM Communication	
HUMN 211H4, Honors Birth of Modern Culture 1600- 1900 (honors only)	ARTS	 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- 	

	(MATHES-MATHZ) 2022-23 THROUGH	1 2024-25 CATALOG TEARS
	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	
STATE CORE	Choose 1: *	*Some courses may appear as options in multiple areas of the
HUMANITIES	AAST 20203, The African American Experience	State Core. You can only count each course 1 time in the State
3 hrs	ANTH 10303, Introduction to Archeology	Core and will need unique courses in each of the content
5 11 5	• ARCH 10103, Diversity and Design (or ARCH 101H3)	areas below.
	CLST 10003, Introduction to Classical Studies: Greece (or	
	CLST 100H3)	
	CLST 10103, Introduction to Classical Studies: Rome (or	
	CLST 101H3)	
	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)	

	(WAINDS-WAINZ) 2022-25 THROOD	
	THTR 10103, Musical Theatre Appreciation (or THTR 101H3)	
	Any Intermediate level foreign language numbered at the 20000 level	
MATHBS CORE	 MATH 11003, College Algebra (may not be required based on math placement) 	The students first math course also meets university core requirements.
36-46 hrs	 MATH 13004, Pre-Calculus OR MATH 12003, Plane Trigonometry (may not be required based on <u>math</u> <u>placement</u>) 	Students must earn a C or higher to use a class as a pre-requisite.
	 MATH 24004, Calculus I (pre-req: MATH 13004, 12003, or math placement)* MATH 25004, Calculus II (pre-req: MATH 24004) 	See <u>catalog</u> for additional pre-requisite information for individual classes.
	 MATH 26004, Calculus III (pre-req MATH 25004) MATH 25804, Elementary Differential Equations (pre-req: 	*MATH 24005, Calculus I with review, can also be taken here.
	 MATH 25004) MATH 28003/28001, Transition to Advanced Mathematics (co- OR pre-req: MATH 25004)** MATH 30903, Abstract Linear Algebra (pre-req: MATH 2803. co- or pre-req: MATH 25004)*** MATH 31103, Introduction to Abstract Algebra I (pre-req: MATH 31103, Introduction to Abstract Algebra I) 	 **MATH 28003 should be taken as early as possible. While not listed in the major as a requirement, MATH 28001 is a co-requisite class that needs to be taken along with MATH 28003. **Students may not receive credit for both MATH 30903 and MATH 30803
	 MATH 28003 and either MATH 30903 or 30803) MATH 45103, Advanced Calculus 1 (pre-req: MATH 26004, MATH 28003, and either MATH 30903 or 30803)**** 	***Students may not receive credit for both MATH 35103 and 45103 in the major.
	 MATH 49303, Mathematics Major Seminar (Spring only, pre-req: senior standing and mathematics major) CSCE 20004, Programming Foundations I (pre-req: MATH 24004) 	
PURE CONCENTRATION 18 hrs	 MATH 44403, Complex Variables (pre-req: MATH 28003 or 26003 and MATH 25804) 6 hrs MATH or STAT 30000+ (or CSCE 41303*) 	* Students who take CSCE 41303 and would like to count it for the 24 hour rule may request this using the <u>General College Petition</u> .
	Choose 3: • MATH 32003, Number Theory (pre-req: MATH 24004 and either MATH 30903 or 30803) • MATH 41103, Introduction to Abstract Algebra II	Honors MATH requirements can count in math electives category. See below for more details.
	 (pre-req: MATH 31103) MATH 45003, Differential Geometry (pre-req: MATH 26004) MATH 45203, Advanced Calculus II (pre-req: MATH 45103) 	MATH or STAT 3999T or 4999T courses may count in the MATH/STAT 30000+ requirement as students still meet the 50% rule. Not all 999T 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 30000 -level or	*This requirement was removed from the 2024-25 catalog
COURSE REQUIREMENT 0 hrs *	higher <u>not in Mathematics or Statistics</u> chosen with department approval.*	The department does not enforce this requirement in any catalog years. Students still need 120 total hours in their degree but may take any general electives they would like in
		lieu of this requirement. <i>For this reason, this requirement is not listed in the degree snapshot on page 1.</i>
GENERAL ELECTIVES	Hours will vary depending on math 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.
23-40 hrs		

WRITING	The college writing requirement may be satisfied in one of two	
REQUIREMENT	ways:	
	Upon completion of MATH 49303	
	 Successful honors thesis defense 	
HONORS	Minimum Requirements for Honors:	Honors Thesis Timeline: Honors students should consistently
	 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) 	check the <u>honors thesis timeline</u> to stay on track to complete your honors thesis.
	 Students must receive a C or higher in all 2000 level MATH/STAT classes required for the degree. Complete a minimum of 12 hours of honors courses from the UofA (including at least 2 hrs of MATH 399HV taken at least one semester before graduation). Students on 2023-24 and older catalogs may count MATH 498V for this requirement. Complete and defend Honors Thesis 	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): <u>Academic Planning Resources</u>
	See <u>Catalog</u> for full description of requirements.	