2024-2025 Degree Map-Bachelor of Science in Mathematics Education

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at https://catalog.atu.edu/

#Prerequisite Courses: ENGL 0303____ MATH 0803___ MATH 1003____ MATH 0903____ MATH 1113___ MATH 1110____
MATH 1203 ____ MATH 1914_____

Possible Careers: Secondary Math Teacher. A graduate degree is needed to teach in colleges & universities

Sample Schedule — Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	Required for admission to Stage II
U.S. History & Government	3		
MATH 1001- Orientation to Mathematics	1	#	Fall Only
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	Required for admission to Stage II
General Elective	4		
Total hours	15	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	Required for admission to Stage II
Social Science	3		
COMS 1013/1011- Programming Foundations I and Lab	4		
MATH 2703- Discrete Mathematics	3	#	Pre-req: # in MATH 1113 or higher
MATH 2924- Calculus II (ACTS= MATH 2505)	4	#	Prerequisite: MATH 2914
Total hours	17	GPA	

Semester 3	Hrs.		Semester 3
PHYS 2114/2000- Calculus-Based Physics I (ACTS=PHYS 2034)	4	#	Co/Prerequisite: MATH 2924
General Elective	3	#	
MATH 2934- Calculus III (ACTS= MATH 2603)	4	#	Prerequisite: MATH 2924
MATH 4003- Linear Algebra 1	3	#	
SEED 2003- Education as a Profession	3	#	Required for admission to Stage II
Total hours	17	GPA	2.70+ GPA REQUIRED

Semester 4	Hrs.		Semester 4
PHYS 2124/2010- Calculus-Based Physics II (ACTS=PHYS 2044)	4	#	Co/Prerequisite: MATH 2934
Fine Arts & Humanities	3	#	
ANTH 2003- Cultural Anthropology (ACTS=ANTH 2013)	3	#	
MATH 3123- College Geometry	3	#	(Spring Only) Prerequisite: MATH 2924
MATH 3243- Differential Equations I	3	#	Prerequisite: MATH 2924
Total hours	16	GPA	MATH and SEED Advisor Assigned

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed by searching keyword "ACTS" at https://adhe.edu/

Sample Schedule — Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		**Are you admitted to Stage II?**
COMM 2003- Public Speaking	3		Required for admission to Stage II
STAT 3153- Applied Statistics	3	#	Prerequisite: MATH 2924
MATH 3003- Foundations of Advanced Mathematics	3	#	(Fall Only) Prerequisite: MATH 2703
SEED 2113- Human Development and Learning Theories	3	#	
Total hours	15	GPA	

Semester 6	Hrs.		Semester 6
MATH 3203- Introduction to Analysis	3	#	(Spring Only) Prerequisite: MATH 3003
MATH 3703- Mathematics in the Secondary Schools	3	#	(Spring Only) Prereq: SEED 2003
MATH 3771- Praxis Mathematics: Content Knowledge and Test Prep	1	#	(Spring Only) Req. Stage II Admission
MATH 4123- Mathematical Modeling	3	#	(Spring Only) Prereqs: MATH 2703 & 3243
EDMD 2013- Integrating Instructional Technology	2	#	
Total hours	13	GPA	**APPLY FOR GRADUATION**

Semester 7	Hrs.		Semester 7
MATH 4033- Abstract Algebra I	3	#	(Fall Only) Prerequisite: MATH 3003
MATH 4703- Special Methods in Mathematics	3	#	Co-reqs: SEED 4054 & SEED 4556
SPED 4052- Education Diverse & Exceptional Learners	2	#	Requires Stage II Admission
SEED 4553- Classroom Application of Educational Psychology	3	#	Requires Stage II Admission
MATH 4113- History of Mathematics	3		
Total hours	14	GPA	**APPLY FOR INTERNSHIP**

Students must receive passing Praxis II scores to be admitted to Internship

Semester 8	Hrs.		Semester 8
MATH 4971- Mathematics Senior Seminar	1	#	
SEED 4503- Seminar in Secondary Education	3	#	**MUST BE ADMITTED**
SEED 4909- Residency B	9	#	**TO INTERNSHIP**
			Graduation Requirements:
			Min. 120 earned hours
Total Hours	13	GPA	2.70+ GPA

General Electives: 7 hours 1000-4000 level

# indicates a "C" or better is required

Fine Arts and Humanities
ART 2123 Experiencing Art (ACTS=ARTA1003)
MUS 2003 Introduction to Music (ACTS=MUSC1003)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)
ENGL/JOUR 2173 Introduction to Film
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)
1013 from SPAN, FR, GER, or JPN
1023 from SPAN, FR, GER, JPN, or CHIN
LEAD 2003 Ethics in Leadership

U.S. History & Government
HIST 1903 Survey of American History
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
POLS 2003 American Government (ACTS=PLSC2003)

University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.

Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113)
HIST 1513 World History since 1500 (ACTS=HIST1123)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Macroeconomics (ACTS=ECON2103)
ECON 2013 Principles of Microeconomics (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOCI1013)
PSY 2003 General Psychology (ACTS=PSYC1103)

ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies
FIN 2013 Personal Finance
LEAD 1003 Introduction to Leadership