

2023-2024 Degree Map-Bachelor of Science in Mathematics

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 <http://www.atu.edu/catalog/>

Possible careers include: Mathematician, Statistician, Actuary, Astronomer, Bank and Branch Manager, Brokers Floor Representative, Budget Analyst, Chief Financial Officer, Compensation Administrator, Employee Benefits Analyst, Financial Aid Counselor, Financial Analyst, Logistician, Mathematical Technician, Meteorologist, Quality Control Engineer

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

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
U.S. History & Government	3		
MATH 1001- Orientation to Mathematics	1		Fall Only
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	# C or > required for Gen Ed. / Milestone
General Elective	4		
Total hours	15	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Social Science	3		
MATH 2703- Discrete Mathematics	3		Pre-req: # in MATH 1113 or higher Milestone
MATH 2924- Calculus II (ACTS= MATH2505)	4	#	Milestone
General Elective	2		
Total hours	15	GPA	

Semester 3	Hrs.		Semester 3
Fine Arts & Humanities	3		
PHYS 2114/2000- Calculus-Based Physics I (ACTS=PHYS 2034)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		
MATH 3003- Foundations of Advanced Mathematics	3		Fall Only
General Elective	1		
Total hours	15	GPA	

Semester 4	Hrs.		Semester 4
Social Science	3		
COMS 2803- Programming in C	3		Pre-req: # MATH 1113 or higher
PHYS 2124/2010- Calculus-Based Physics II (ACTS=PHYS 2044)	4		
MATH 3243- Differential Equations I	3		
General Elective	2		
Total hours	15	GPA	MATH 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/>

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, JPN, CHIN, or LAT 1023 from SPAN, FR, GER, JPN, CHIN, or LAT 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)
	Communication Courses COMM 1003 Intro to Speech Comm COMM 2003 Public Speaking COMM 2173 Business and Professional Speaking

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
STAT 3153- Applied Statistics I	3		
MATH 4003- Linear Algebra I	3		
General Elective	3		
General Elective	3		
Total hours	15	GPA	

Semester 6	Hrs.		Semester 6
Social Sci./Fine Arts/Humanities/Comm	3		
MATH 3203- Introduction to Analysis	3		Spring Only
MATH 4123- Mathematical Modeling	3		Spring Only
General Elective	3		
General Elective (3000-4000)	3		
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.		Semester 7
MATH 4033- Abstract Algebra I	3		Fall Only
*MATH Elective (3000-4000)	3		See excluded math courses below.
General Elective	3		
General Elective	3		
General Elective (3000-4000)	3		
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
MATH 4971- Mathematics Senior Seminar	1		
*MATH Elective (3000-4000) See note below.	3		
General Elective (3000-4000)	3		Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA No more than 12 hours of "D" grades
General Elective (3000-4000)	3		
General Elective	3		
General Elective	2		
Total Hours	15	GPA	

General Electives: 29 hours (1000-4000 level); 12 hours (3000-4000 level)

*MATH Electives: May not use MATH 3033 or 4703. MATH 4993 must have math department head approval.

indicates a "C" or better is required

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=SOCI0103) PSY 2003 General Psychology (ACTS=PSYC1103)	Social Sciences 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
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University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.