

**2022-2023 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.	Grade	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.	Grade	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.	Grade	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	<b>MATH ADVISOR ASSIGNED</b>

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 at <https://www.adhe.edu/students-parents/colleges-universities/transfer-info.-for-students/>

Fine Arts and Humanities	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Survey of American History
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 United States History to 1877 (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Honors United States History to 1877
ENGL 2173 Introduction to Film	HIST 2013 United States History since 1877 (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2183 Honors Introduction to Film	<b>Communication Courses</b>
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	COMM 1003 Intro to Speech Comm
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	COMM 2003 Public Speaking
ENGL 2023 Honors World Literature	COMM 2173 Business and Professional Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

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.	Grade	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	<b>APPLY FOR GRADUATION</b>

Semester 7	Hrs.	Grade	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.	Grade	Semester 8
MATH 4971- Mathematics Senior Seminar	1		
*MATH Elective (3000-4000) See note below.	3		<b>Graduation Requirements:</b> 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 (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, 3173, 4703, or 4772. MATH 4993 must have math department head approval.

# indicates a "C" or better is required

	Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World History since 1500 (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOC11013)
HIST 1543 Honors World History to 1500	PSY 2003 General Psychology (ACTS=PSYC1103)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)	ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
HIST 2043 Honors U.S. History to 1877	GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
HIST 1903 Survey of American History	AMST 2003 American Studies
POLS 2003 American Government (ACTS=PLSC2003)	FIN 2013 Personal Finance
ECON 2003 Principles of Economics I (ACTS=ECON2103)	LEAD 1003 Introduction to Leadership
ECON 2103 Honors Principles of Economics I	