

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	

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 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 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	APPLY FOR GRADUATION

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 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 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	MATH ADVISOR ASSIGNED

Semester 8	Hrs.	Grade	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

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	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

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

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