ARKANSAS TECH UNIVERSITY

NAME:_____ T#:_____ DATE:_____

8-Semester Guaranteed Program

Rev. 03/8/19

2019-2020 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_____ ENGL 0404_____ READ 0103_____ MATH 0803_____ MATH 1003_____ MATH 0903_____ MATH 0900_____ 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		
TECH 1001- Orientation to the University	1		
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		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- General Physics I (ACTS=PHYS 2034)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		
MATH 3003- Foundations of Number Systems	3		
General Elective	1		
Total hours	15	GPA	

Semester 4	Hrs.		Semester 4
Social Science	3		
COMS 2803- Programming in C	3		
PHYS 2124/2010- General 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 at http://acts.adhe.edu/

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		
MATH 4123- Mathematical Modeling	3		
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		
*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		**Graduation Requirements:**
General Elective (3000-4000)	3		Min. hours 3000-4000 level courses: 40
General Elective (3000-4000)	3		No more than 4 PE activity hours
General Elective	3		Min. hours required:120
General Elective	2		2.00+ GPA
Total Hours	15	GPA	No more than 12 hours of "D" grades

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

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 2173 Introduction to Film
JOUR 2173 Introduction to Film
ENGL 2183 Honors Introduction to Film
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
ENGL 2023 Honors World Literature
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)
PHIL 2043 Honors Introduction to Philosophy
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

U.S. History & Government
HIST 1903 Survey of American History
HIST 2003 United States History to 1877 (ACTS=HIST2113)
HIST 2043 Honors United States History to 1877
HIST 2013 United States 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 1543 Honors World History to 1500
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
HIST 2043 Honors U.S. History to 1877
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Economics I (ACTS=ECON2103)
ECON 2103 Honors Principles of Economics I
ECON 2013 Principles of Economics II (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