

**2023-2024 Degree Map-Bachelor of Science in Applied Statistics: Actuarial Science option**

This map is a term-by-term sample course schedule. 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: Actuary, Risk Analyst, Financial Analyst, Business Analyst, Marketing Analyst**

#Prerequisite Courses: ENGL 0303 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 1003 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH1113 \_\_\_\_\_ MATH 1110 \_\_\_\_\_ MATH 1203 \_\_\_\_\_ MATH 1914 \_\_\_\_\_

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
BUAD 2003- Business Information Systems	3		
ECON 2003- Principles of Macroeconomics (ACTS=ECON 2103)	3		
MATH 1001- Orientation to Mathematics	1		
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	# C or > required for Gen Ed.
<b>Total hours</b>	<b>14</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Fine Arts & Humanities	3		
ECON 2013- Principles of Microeconomics (ACTS=ECON 2203)	3		
MATH 2924- Calculus II (ACTS= MATH2505)	4	#	
STAT 2163-Intro to Statistical Methods	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 3	Hrs.	Grade	Semester 3
ACCT 2004/2000-Accounting Principles I & Lab	4		(ACTS=ACCT 2003)
BDA 2003- Business Problem Solving	3		
STAT 2304- Programming Languages for Data Science	4		
MATH 2934- Calculus III (ACTS= MATH 2603)	4		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 4	Hrs.	Grade	Semester 4
ACCT 2013-Accounting Principles II (ACTS=ACCT 2013)	3		
COMS 1013- Programming Foundations I	3		
COMS 1011- Programming I Foundations Lab	1		Pass/Fail
STAT 3153- Applied Statistics	3		
STAT 3113- Regression Analysis	3		
Quantitative Elective	3		<b>SEE Catalog</b>
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	<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 by searching keyword "ACTS" at <https://adhe.edu/>

# indicates a "C" or better is required

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 U.S. History to 1877 (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
ENGL/JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	<b>Science with Lab</b>
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	BIOL 1014- Intro. to Biological Science (ACTS= BIOL1004)
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	BIOL/PHSC 1004- Principles of Environmental Science
1013 from SPAN, FR, GER, JPN, CHIN, or LAT	GEOL 1014- Physical Geology (ACTS= GEOL 1114)
1023 from SPAN, FR, GER, JPN, CHIN, or LAT	
LEAD 2003 Ethics in Leadership	

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
U.S. History/Government	3		
Science with lab	4		
MATH 4003- Linear Algebra I	3		
STAT 3203- Actuarial Probability I	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 6	Hrs.	Grade	Semester 6
Social Science	3		
Science with lab	4		
STAT 3213- Actuarial Probability II	3		
STAT 4153- Experimental Design and Analysis	3		
Quantitative Elective	3		<b>SEE Catalog</b>
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Sample Schedule	Milestones/Notes		
Semester 7	Hrs.	Grade	Semester 7
COMM 2173- Business & Professional Speaking	3		
STAT 4283- Financial Mathematics I	3		
MATH/STAT Elective (3000-4000) SEE catalog	3		<b>SEE Catalog</b>
Quantitative Elective	2		
General Elective (3000-4000)	3		
<b>Total hours</b>	<b>14</b>	<b>GPA</b>	

Sample Schedule	Milestones/Notes		
Semester 8	Hrs.	Grade	Semester 8
Social Science	3		
MATH 4971- Mathematics Senior Seminar	1		<b>Graduation Requirements:</b>
STAT 4293- Financial Mathematics II	3		
MATH/STAT Elective (3000-4000) SEE catalog	3		
General Elective (3000-4000)	3		Min. hours 3000-4000 level courses: 40
<b>Total Hours</b>	<b>13</b>	<b>GPA</b>	No more than 4 PE activity hours Min. hours required:120 2.00+ GPA No more than 12 hours of "D" grades

General Electives: 6 hours (3000-4000 level)

Quantitative Electives: 8 hours (2000-4000 level) may include MATH, STATS, COMS, BUAD, BDA, FIN, or another area with quantitative content (ask approval from advisor)

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.**