2022-2023 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_____ 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 Economics I (ACTS=ECON 2103)	3		
MATH 1001- Orientation to Mathematics	1		
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	# C or > required for Gen Ed.
Total hours	14	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Fine Arts & Humanities	3		
ECON 2013- Principles of Economics II (ACTS=ECON 2203)	3		
MATH 2924- Calculus II (ACTS= MATH2505)	4	#	
STAT 2163-Intro to Statistical Methods	3		
Total hours	16	GPA	

Semester 3	Hrs.		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		
Total hours	15	GPA	

Semester 4	Hrs.		Semester 4
ACCT 2013-Accounting Principles II (ACTS=ACCT 2013)	3		
COMS 1013- Programming I	3		
COMS 1011- Programming I Lab	1		Pass/Fail
STAT 3153- Applied Statistics	3		
STAT 3113- Regression Analysis	3		
Quantitative Elective	3		**SEE Catalog**
Total hours	16	GPA	**MATH ADVISOR ASSIGNED**

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		
Total hours	16	GPA	

Semester 6	Hrs.		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		**SEE Catalog**
Total hours	16	GPA	**APPLY FOR GRADUATION**

Semester 7	Hrs.		Semester 7
COMM 2173- Business & Professional Speaking	3		
STAT 4283- Financial Mathematics I	3		
MATH/STAT Elective (3000-4000) SEE catalog	3		**SEE Catalog**
Quantitative Elective	2		
General Elective (3000-4000)	3		
Total hours	14	GPA	

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

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-universites/transfer-info.-for-students/

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)

# 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

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

Social Sciences
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
FIN 2013 Personal Finance
LEAD 1003 Introduction to Leadership