

2020-2021 Degree Map-Bachelor of Science in Applied Statistics: Data 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: Data Scientist, Data Analyst, Business Analyst, Quantitative Analyst, Statistical Analyst, Statistical Programmer, Statistician, Operation research analyst

#Prerequisite Courses: ENGL 0303 _____ MATH 0803 _____ MATH 1003 _____ MATH 0903 _____ MATH 0900 _____ MATH 1110 _____ MATH 1203 _____ MATH 1914 _____

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		
U.S. History & Government	3			
MATH 1001- Orientation to Mathematics	1			
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	# C or > required for Gen Ed.	
BUAD 2003- Business Information Systems	3			
General Elective	1			
Total hours	15	GPA		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		
Fine Arts & Humanities	3			
BDA 2003- Business Problem Solving	3			
MATH 2924- Calculus II (ACTS= MATH2505)	4			
STAT 2303- Statistical Methods	3			
Total hours	16	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
Social Science	3			
MATH 2703- Discrete Mathematics	3			
MATH 2934- Calculus III (ACTS= MATH 2603)	4			
STAT 3153- Applied Statistics	3			
MATH/STAT Elective	3			SEE Catalog
Total hours	16	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
BDA 3053- Business Data Analysis	3			
COMS 2104- Foundations of Computer Prog. I	4			
MATH 3243- Differential Equations I	3			
STAT 3113- Regression analysis	3			
MATH/STAT Elective	3			SEE Catalog
Total hours	16	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/>

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	Communication Courses
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

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3			
Science with lab	4			
COMS 2203- Foundations of Computer Prog II	3			
MATH 4003- Linear Algebra I	3			
STAT 4163- Mathematical Statistics	3			
Total hours	16	GPA		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
COMM 2173- Business & Professional Speaking	3			
Science with lab	4			
COMS 2213- Data Structures	3			
STAT 4153- Experimental Design and Analysis	3			
MATH/STAT Elective (3000-4000)	3			SEE Catalog
Total hours	16	GPA	APPLY FOR GRADUATION	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
Social Science	3			
STAT 4113- Categorical Data Analysis	3			
COMS Elective (3000-4000)	3			SEE Catalog
General Elective	3			
Total hours	12	GPA		

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
MATH 4971- Mathematics Senior Seminar	1			
COMS Elective (3000-4000) SEE catalog	3			
MATH/STAT Elective (3000-4000) SEE catalog	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
MATH/STAT Elective (3000-4000) SEE catalog	3			
General Elective	3			
Total Hours	13	GPA		

General Electives: 6 hours (1000-4000 level)

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)	
ECON 2003 Principles of Economics I (ACTS=ECON2103)	
ECON 2103 Honors Principles of Economics I	