

**2024-2025 Degree Map-Bachelor of Science in Biology, Biostatistics Option**

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 <https://catalog.atu.edu/>

#Prerequisite Courses: ENGL 0303 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH 1110 \_\_\_\_\_ COMS 1003 \_\_\_\_\_

Possible Careers: Clinical Research Coordinator, Public Health Analysis, Biostatistician, Data Scientist

**Sample Schedule**

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		
MATH 1113- College Algebra	3	#	(ACTS= MATH 1103 or 1305)	
CHEM 2124/2120: General Chemistry I (ACTS= CHEM 1414)	4			
BIOL 1011- Orientation to the Biological Sciences	1			
BIOL 1114- Principles of Biology (ACTS= BIOL 1014)	4			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4			
BIOL 2124- Principles of Zoology	4			
STAT 2163- Introduction to Statistical Methods	3			
U.S. History & Government	3			
<b>Total hours</b>	<b>17</b>	<b>GPA</b>		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
SOC 1003- Sociology or PSY 2003- Psychology	3		(ACTS= SOCI1013 or PSYC1103)	
CHEM 3254- Fundamentals of Organic Chemistry	4			
BIOL 2134- Principles of Botany	4			
PHYS 2014/2000- Algebra-Based Physics I (ACTS=PHYS 2014)	4			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
STAT 2304- Programming Languages for Data Science	4			
PHYS 2024/2010- Algebra-Based Physics II (ACTS=PHYS 2024)	4			
CHEM 3264- Mechanistic Organic Chemistry	4			
COMM 2003- Public Speaking or COMM 2173-Bus/Prof	3			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>BIOL 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/>

Fine Arts and Humanities	U.S. History & Government
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, or JPN 1023 from SPAN, FR, GER, JPN, or CHIN LEAD 2003 Ethics in Leadership	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)  <b>University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.</b>

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
STAT 3113- Regression Analysis	3			
Fine Arts & Humanities	3			
BIOL 3054- Microbiology	4			
Biology Elective	4		Includes any 2000-4000 Level BIOL course	
General Elective	3			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
BIOL 3034- Genetics	4			
Biology Elective	4			
STAT 4154- Experimental Design and Analysis	3			
Social Science	3			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
BIOL 3114- Ecology or BIOL 4094- Coastal Ecology	4			
Fine Arts & Humanities	3			
STAT Elective	3		STAT Electives Include: BDA 3013, BDA 3033, STAT 3183, STAT 4113, STAT 4163, STAT 4383, STAT 4393	
BIOL 3033- Bioinformatics	3			
General Elective	3			
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		

\*Must choose sufficient electives at 3000-4000 level to constitute a total of 40 hours.

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
BIOL 4891- Seminar in Biology	1			<b>Graduation Requirements:</b> Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA
STAT Elective	3			
Biology Elective	4			
Biology Elective	4			
<b>Total Hours</b>	<b>12</b>	<b>GPA</b>		

General Electives: 5 - 12 hours (1000-4000 level) as need to complete 40 hrs total of 3000-4000 level courses

# indicates a "C" or better is required

No more than 12 hours of "D" grades

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