

**2024-2025 Degree Map-Bachelor of Science in Biology, Biomedical 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 \_\_\_\_\_

**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 <b>OR</b> PSY/SOC 2053 Statistics for the Behavioral Sciences	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 <b>or</b> 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
BIOL 2014- Human Anatomy (ACTS=BIOL 2404)	4			
PHYS 2024/2010- Algebra-Based Physics II (ACTS=PHYS 2024)	4			
CHEM 3264- Mechanistic Organic Chemistry	4			
Major Support Elective (choose from list below)	3			
AHS 2013- Medical Terminology, PE 2513- First Aid, PHIL 3103- Logic				
<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)	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>University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.</b>
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	

Possible Careers: Pharmaceutical Industry, Healthcare, Public Health, Laboratories, and Preparation for Graduate School in Pharmacy, Dentistry, Medicine, Veterinary Medicine, etc.

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
BIOL 3034- Genetics	4			
Social Science	3			
BIOL 3074- Human Physiology	4			
BIOL 3054- Microbiology	4			
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
BIOL 4033- Cell Biology	3			
CHEM 3344- Principles of Biochemistry	4			
PSY Elective (3000-4000 Level)	3		Electives Include: PSY 3003, 3013, 3813, 4133	
COMM 2003- Public Speaking <b>or</b> COMM 2173-Bus/Prof	3			
General Elective	2			
<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 <b>or</b> BIOL 4094- Coastal Ecology	4			
Fine Arts & Humanities	3			
MATH <b>or</b> STAT Elective	3		Any MATH higher than 1113, any STAT higher than 2163	
Biomed Elective	3-4		Electives Include: BIOL 3033, 3034, 3803, 4023, 4054, 4074, 4881-4, 4951-4	
Biomed Elective	3-4			
<b>Total hours</b>	<b>16-18</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			
Fine Arts & Humanities	3			
Biomed Elective	3-4			
Biomed Elective	3-4			
General Elective	2			
<b>Total Hours</b>	<b>12-14</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

	Social Sciences
HIST 1503 World History to 1500 (ACTS=HIST1113)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
HIST 1513 World History since 1500 (ACTS=HIST1123)	ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)	GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)	AMST 2003 American Studies
HIST 1903 Survey of American History	FIN 2013 Personal Finance
POLS 2003 American Government (ACTS=PLSC2003)	LEAD 1003 Introduction to Leadership
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)	