

2025-2026 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

Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
MATH 1113- College Algebra	3	#	
CHEM 2124/2120- General Chemistry I and lab	4		
BIOL 1011- Orientation to the Biological Sciences	1		
BIOL 1114- Principles of Biology (ACTS= BIOL 1014)	4		
Total hours	15	GPA	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
CHEM 2134/2130- General Chemistry II and lab	4		
BIOL 2124- Principles of Zoology	4		
STAT 2163- Introduction to Statistical Methods or PSY/SOC 2053 Statistics for the Behavioral Sciences	3		
U.S. History & Government	3		Freshman Milestone: Visit the Tutoring Center at least once
Total hours	17	GPA	

Semester 3	Hrs.	Grade	Semester 3
SOC 1003- Intro Sociology or PSY 2003- General Psychology	3		
CHEM 3254/3250- Fundamentals of Org. Chemistry and lab	4		
BIOL 2134- Principles of Botany	4		
PHYS 2014/2000- Algebra-Based Physics I and lab	4		
Total hours	15	GPA	

Semester 4	Hrs.	Grade	Semester 4
BIOL 2014- Human Anatomy (ACTS=BIOL 2404)	4		
PHYS 2024/2010- Algebra-Based Physics II and lab	4		
CHEM 3264/3260- Mechanistic Organic Chemistry and lab	4		
Major Support Elective (choose from list below)	3		Sophomore Milestone: Begin researching graduate programs
AHS 2013- Medical Terminology, PE 2513- First Aid, PHIL 3103- Logic			
Total hours	15	GPA	BIOL 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 by searching keyword "ACTS" at <https://adhe.edu/>

Fine Arts and Humanities ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Survey of Music History (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	U.S. History & Government 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) University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.
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Possible Careers: Pharmaceutical Industry, Healthcare, Public Health, Laboratories, and Preparation for Graduate School in Pharmacy, Dentistry, Medicine, Veterinary Medicine, etc.

Sample Schedule

Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
BIOL 3034- Genetics	4		
Social Science	3		
BIOL 3074- Human Physiology	4		
BIOL 3054- Microbiology	4		
Total hours	15	GPA	

Semester 6	Hrs.	Grade	Semester 6
BIOL 4033- Cell Biology	3		
CHEM 3344/3340- Principles of Biochemistry and lab	4		
PSY Elective (3000-4000 Level)	3		Includes: PSY 3003, 3013, 3813, 4133
COMM 2003- Public Speaking or COMM 2173-Bus/Prof	3		
General Elective	2		Junior Milestone: Complete entrance exams, i.e. MCAT, PCAT, etc
Total hours	15	GPA	

APPLY FOR GRADUATION

Semester 7	Hrs.	Grade	Semester 7
BIOL 3114- Ecology or BIOL 4094- Coastal Ecology	4		Senior Milestone: Complete a senior check-in with Career Services
Fine Arts & Humanities	3		
MATH or STAT Elective	3		MATH higher than 1113, STAT higher than 2163
Biomed Elective	3-4		Includes: BIOL 3033, 3064, 3803, 4023, 4054, 4074, 4881-4, 4951-4
Biomed Elective	3-4		
Total hours	16-18	GPA	

Semester 8	Hrs.	Grade	Semester 8
BIOL 4891- Seminar in Biology	1		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
Fine Arts & Humanities	3		
Biomed Elective	3-4		
Biomed Elective	3-4		
General Elective	2		
Total Hours	12-14	GPA	

General Electives: 4 hours (1000-4000 level)

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

indicates a "C" or better is required

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
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