

2018-2019 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 <http://www.atu.edu/catalog/>

Possible careers include: Clinical Research Coordinator, Water Resource Specialist, Molecular and Cellular Biologist, Life Scientist, Biological Science Teacher, Surgeon (MD), Anesthesiologist (MD), Cardiologist (MD), General Internist (MD), Pathologist (MD), Geneticist, Dentistry, Physical Therapy (all medical fields pending medical school)

#Prerequisite Courses: ENGL 0303 _____ ENGL 0404 _____ READ 0103 _____ MATH 0803 _____ MATH 1003 _____ MATH 0903 _____ MATH 0900 _____ MATH 1110 _____

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
MATH 1113- College Algebra or MATH 1914- Pre-Calc.	3-4	#	(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		
Total hours	15-16	GPA	

Sample Schedule	Milestones/Notes		
Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4		
BIOL 2124- Zoology or BIOL 2134- Botany	4		(ACTS= BIOL 1054 or 1034)
MATH 2914 or other MATH higher than MATH 1113	3-4		MATH 2914- (ACTS =MATH2405)
Total hours	14-15	GPA	

Sample Schedule	Milestones/Notes		
Semester 3	Hrs.	Grade	Semester 3
SOC 1003- Sociology or PSY 2003- Psychology	3		(ACTS= SOCI1013 or PSYC1103)
CHEM 3254- Fundamentals of Org. Chemistry MILESTONE	4		
BIOL 2124- Zoology or BIOL 2134- Botany	4		(ACTS= BIOL 1054 or 1034)
COMS Elective	3		
Biomedical Elective (choose from list below)	3		
*AHS 2013, PE 2513, PHIL 3103, PSY 3063, SOC 4053, or SOC 4183			
Total hours	17	GPA	

Sample Schedule	Milestones/Notes		
Semester 4	Hrs.	Grade	Semester 4
Communication	3		
Social Science	3		
CHEM 3264- Mechanistic Organic Chemistry	4		
BIOL 2014- Human Anatomy (ACTS=BIOL 2404)	4		
Statistics- PSY/SOC 2053 or MATH 2163	3		MATH 2163 (ACTS=MATH2103)
Total hours	17	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 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 2003 Introduction to World Literature (ACTS=ENGL2113)	Communication Courses
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	COMM 1003 Intro to Speech Comm
ENGL 2023 Honors World Literature	COMM 2003 Public Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	COMM 2173 Business and Professional Speaking
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
PHYS 2014/2000- Physical Principles I (ACTS=PHYS 2014)	4		
BIOL 3074- Human Physiology	4		
Cellular Elective (choose from list below)	3-4		
*BIOL 3054, 4023, 4033, or 4074			
Total hours	14-15	GPA	

Sample Schedule	Milestones/Notes		
Semester 6	Hrs.	Grade	Semester 6
Fine Arts & Humanities	3		
U.S. History & Government	3		
PHYS 2024/2010- Physical Principles II (ACTS=PHYS 2024)	4		
BIOL 3034- Genetics	4		
Biology Elective (choose from list below)	3-4		
*BIOL 3054, 4023, 4033, 4074, 4951-4, CHEM 3344 or 3363			
Total hours	17-18	GPA	APPLY FOR GRADUATION

Sample Schedule	Milestones/Notes		
Semester 7	Hrs.	Grade	Semester 7
BIOL 3114- Ecology or BIOL 4094- Coastal Ecology	4		
General Electives (as needed to reach 120 hours)	3		
Biology Elective (choose from list below)	6-8		
*BIOL 3024, 3064, 3803, 4054, 4083, 4951-4 or NUR 2303			
Total hours	13-15	GPA	

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

Sample Schedule	Milestones/Notes		
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
General Electives (as needed to reach 120 hours)	9		
Biology Elective (choose from list below)	3-4		
*BIOL 3054, 4023, 4033, 4074, 4951-4, CHEM 3344 or 3363			
Total Hours	13-15	GPA	

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 Civilization to 1500 (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World Civilization since 1500 (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOCI1013)
HIST 1543 Honors World Civilization 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	