

**2016-2017 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/academics/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)**

#Remedial Courses (if applicable): ENGL 0303 \_\_\_\_ ENGL 0404 \_\_\_\_ READ 0103 \_\_\_\_ MATH 0903 \_\_\_\_

**Sample Schedule**

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
#ENGL 1013: Comp I (ACTS=ENGL 1013)	3			
#MATH1113: College Algebra or MATH1914: Pre-Calc.	3-4		(ACTS= MATH 1103 or 1305)	
CHEM 2124/2120: General Chemistry I (ACTS= CHEM 1414)	4			
BIOL1011: Orientation to the Biological Sciences	1			
BIOL1114: Principles of Biology (ACTS= BIOL 1014)	4			
<b>Total hours</b>	<b>15-16</b>	<b>GPA</b>		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
#ENGL 1023: Comp II (ACTS= ENGL 1023)	3			
CHEM2134/2130: 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)	
<b>Total hours</b>	<b>14-15</b>	<b>GPA</b>		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
SOC 1003: Sociology or PSY 2003: Psychology	3		(ACTS= SOC1013 or PSYC1103)	
CHEM3254: 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				
<b>Total hours</b>	<b>17</b>	<b>GPA</b>		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
Communication	3			
Social Science	3			
CHEM3264: Mechanistic Organic Chemistry	4			
BIOL2014: Human Anatomy (ACTS=BIOL 2404)	4			
Statistics: PSY/SOC 2053 or MATH 2163	3		MATH 2163 (ACTS=MATH2103)	
<b>Total hours</b>	<b>17</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 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 from 1877 (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	<b>Communication Courses</b>
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	COMM 1003 Intro. to Speech Com. (ACTS=SPCH1003)
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	

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3			
PHYS2014/2000: Physical Principles I (ACTS=PHYS 2014)	4			
BIOL3074: Human Physiology	4			
Cellular Elective (choose from list below)	3-4			
*BIOL 3054, 4023, 4033, or 4074				
<b>Total hours</b>	<b>14-15</b>	<b>GPA</b>		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
Fine Arts & Humanities	3			
U.S. History & Government	3			
PHYS2024/2010: Physical Principles II (ACTS=PHYS 2024)	4			
BIOL3034: Genetics	4			
Biology Elective (choose from list below)	3-4			
*BIOL 3054, 4023, 4033, 4074, 4951-4, CHEM 3344 or 3363				
<b>Total hours</b>	<b>17-18</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			
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				
<b>Total hours</b>	<b>13-15</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
BIOL4891: 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 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				
<b>Total Hours</b>	<b>13-15</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 Civilization to 1500 (ACTS=HIST1113)
HIST 1513 World Civilization since 1500 (ACTS=HIST1123)
HIST 1543 Honors World Civilization to 1500
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
HIST 2043 Honors U.S. History to 1877
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Economics I (ACTS=ECON2103)
ECON 2103 Honors Principles of Economics I
ECON 2013 Principles of Economics II (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOC1013)
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