

NAME: \_\_\_\_\_ T#: \_\_\_\_\_



### Bachelor of Science in Chemistry (Biochemistry Option) - 8-Semester Guaranteed Program

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/>.

#### Employment Information: Medical, Dental, Biophysicist, Chemical Engineer, Chemical Technician, Conservation Scientist, Environmental Engineer, Food Technologist

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

Prerequisites (if applicable): MATH 1914 (ACTS = MATH 1305) \_\_\_\_\_ or MATH 1203 (ACTS = MATH1203) \_\_\_\_\_

Semester 1 Course Information	Hrs.	Grade	Notes	Semester 5 Course Information	Hrs.	Grade	Notes
ENGL 1013 - Composition I (ACTS = ENGL 1013)	3	#		Fine Arts & Humanities	3		
Social Science	3			BIOL 2124 - Principles of Zoology (ACTS = BIOL 1054)	4		
MATH 2914 - Calculus I (ACTS = MATH 2405)	4		Milestone	CHEM 3301 - Chemistry Seminar	1	#	
PHSC 1001 - Orientation to Physical Science	1			CHEM 3344 - Principles of Biochemistry	4	#	
CHEM 2124/2120 - General Chemistry I (ACTS = CHEM 1414)	4	#	Milestone	General Elective	4		Recommend Statistics or ENGL 2053
<b>Total hours</b>	<b>15</b>	<b>GPA</b>		<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 2 Course Information	Hrs.	Grade	Notes	Semester 6 Course Information	Hrs.	Grade	Notes
ENGL 1023 - Composition II (ACTS = ENGL 1023)	3	#		BIOL 2014 - Human Anatomy (ACTS = BIOL 2404)	4		
BIOL 1114 - Principles of Biology (ACTS = BIOL 1014)	4			BIOL 3034 - Genetics	4		
MATH 2924 - Calculus II (ACTS = MATH 2505)	4			CHEM 3423 - Descriptive Inorganic Chemistry	3	#	
PHSC 1011 - Orientation to Physical Science II (MANDATORY)	1			CHEM 3363 - Metabolic Biochemistry	3	#	
CHEM 2134/2130 - General Chemistry II (ACTS = CHEM 1424)	4	#	Milestone				
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		<b>Total hours</b>	<b>14</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Semester 3 Course Information	Hrs.	Grade	Notes	Semester 7 Course Information	Hrs.	Grade	Notes
Social Science	3			BIOL 3074 - Human Physiology or BIOL 3174 - Physiological Ecology	4		
PHYS 2014/2000 - Phys. Princ. I or PHYS 2114/2000 - Gen. Physics I (ACTS = PHYS 2014 or 2034)	4			CHEM 3324 - Physical Chemistry I	4	#	
COMS 2003 - Microcomp. Apps. or COMS 2803 - Prog. in C	3			CHEM 4414 - Instrumental Analysis	4	#	
CHEM 3254 - Fund. of Organic Chemistry	4	#	Milestone	General Elective	4		Recommend Statistics or ENGL 2053
<b>Total hours</b>	<b>14</b>	<b>GPA</b>		<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 4 Course Information	Hrs.	Grade	Notes	Semester 8 Course Information	Hrs.	Grade	Notes
U.S. History & Government	3			Fine Arts & Humanities	3		<b>Graduation Requirements:</b>  Students must complete 120 hours and achieve a 2.0 GPA or higher with at least 40 hours over 3000 level. No more than 4 hours can be in PE. No more than 12 hours of DS.
PHYS 2024/2010 - Phys. Princ. II or PHYS 2124/2010 - Gen. Physics II (ACTS = PHYS 2024 or 2044)	4			Social Sciences/Fine Arts/Humanities/Speech	3		
CHEM 3245 - Quantitative Analysis	5	#		BIOL 4033 - Cell Biology	3		
CHEM 3264 - Mechanistic Organic Chemistry	4	#		CHEM 4401 - Chemistry Seminar	1	#	
				General Elective	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	<b>CHEM ADVISOR ASSIGNED</b>	<b>Total Hours</b>	<b>13</b>	<b>GPA</b>	

# indicates a "C" or better is required

General Electives: 11 hours (1000-4000)

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	Social Sciences
ART 2123 - Experiencing Art (ACTS = ARTA 1003)	HIST 1903 - Survey of American History	HIST 1503 - World History to 1500 (ACTS = HIST 1113)
MUS 2003 - Introduction to Music (ACTS = MUSC 1003)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)	HIST 1513 - World History since 1500 (ACTS = HIST 1123)
TH 2273 - Introduction to Theatre (ACTS = DRAM 1003)	HIST 2043 - Honors U.S. History to 1877	HIST 1543 - Honors World History to 1500
ENGL 2173 - Introduction to Film	HIST 2013 - U.S. History II (ACTS = HIST 2123)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)
JOUR 2173 - Introduction to Film	POLS 2003 - American Government (ACTS = PLSC 2003)	HIST 2013 - U.S. History since 1877 (ACTS = HIST 2123)
ENGL 2003 - Intro to World Literature (ACTS = ENGL2113)	<b>Science with Lab</b>	HIST 2043 - Honors U.S. History to 1877
ENGL 2013 - Intro to American Literature (ACTS = ENGL 2653)	BIOL 1014 - Intro to Biological Science (ACTS = BIOL 1004)	HIST 1903 - Survey of American History
ENGL 2023 - Honors World Literature	BIOL/PHSC 1004 - Principles of Environmental Science	POLS 2003 - American Government (ACTS = PLSC 2003)
PHIL 2003 - Introduction to Philosophy (ACTS = PHIL 1103)	GEOL 1014 - Physical Geology (ACTS = GEOL 1114)	ECON 2003 - Princ of Economics I (ACTS = ECON 2103)
PHIL 2043 - Honors Introduction to Philosophy	PHSC 1013/1021 - Physical Sci/Lab (ACTS = PHSC 1004)	ECON 2103 - Honors Principles of Economics I
		<b>Speech Courses</b>
		SPH 1003 - Intro to Speech Com (ACTS = SPCH 1003)
		SPH 2003 - Public Speaking
		SPH 2173 - Business and Professional Speaking