

**2016-2017 Degree Map-Bachelor of Science in Chemistry: Environmental 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: Biophysicist, Chemical Engineer, Chemical Technician, Conservation Scientist, Environmental Engineer, Food & Drug Inspector, Food Technologist, Forensic Science Technician, Industrial Air Pollution Analyst, Industrial Waste Inspector, Materials Scientist, Microbiologist, Pharmacist, Soil Scientist, Toxicologist, Water Pollution Control Inspector**

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

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#	
MATH2243: Calc. for Bus. & Econ. (ACTS=MATH 2203)	3	#	MATH 2914 may substitute
PHSC1001: Orientation to Physical Science	1		
PHSC1004: Principles of Environmental Science	4		Milestone
CHEM2124/2120: General Chemistry I (ACTS= CHEM 1414)	4	#	
			Milestone
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023: Comp II (ACTS= ENGL 1023)	3	#	
Social Science	3		
CHEM3313: Environmental Chemistry	3		
PHSC1011:Orientation to Physical Science II (MANDATORY)	1		
CHEM2134/2130: Gen. Chemistry II (ACTS= CHEM 1424)	4	#	
ECON2003: Principles of Economics I (ACTS= 2103)	3		
<b>Total hours</b>	<b>17</b>	<b>GPA</b>	

Semester 3	Hrs.	Grade	Semester 3
U.S. History & Government	3		
MATH2163 or PSY/SOC2053:Stat. Meth or Stats-Behv	3		
COMS2003*:Microcomp. Apps. or COMS2803:Prog. in C	3		*(COMS 2003 prereq.= COMS 1003)
PHYS2014/2000: Physical Principles I (ACTS= PHYS 2014)	4		Milestone
CHEM3254: Fund. of Organic Chemistry	4	#	Milestone
<b>Total hours</b>	<b>17</b>	<b>GPA</b>	

Semester 4	Hrs.	Grade	Semester 4
PHYS 2024/2010: Physical Principles II (ACTS= PHYS 2024)	4		
CHEM2111: Environmental Seminar	1	#	
CHEM3245: Quantitative Analysis	5	#	
CHEM3264: Mechanistic Organic Chemistry	4	#	
<b>Total hours</b>	<b>14</b>	<b>GPA</b>	<b>CHEM 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=HIST2113)
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	

Prerequisites (if applicable):MATH 1113: (ACTS= MATH 1103)\_\_\_\_\_ or ACTE MATH score of 22 \_\_\_\_\_

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
ENGL2053: Technical Writing (ACTS=ENGL 2023)	3		
BIOL2124: Principles of Zoology (ACTS= BIOL 1054)	4		
GEOL1014: Physical Geology (ACTS= GEOL 1114)	4		
CHEM3353: Fundamentals of Toxicology	3	#	
<b>Total hours</b>	<b>17</b>	<b>GPA</b>	

Semester 6	Hrs.	Grade	Semester 6
Fine Arts & Humanities	3		
Social Sci/Fine Arts/Humanities/Comm	3	#	
BIOL2134: Principles of Botany (ACTS= BIOL 1034)	4		
BIOL3043: Conservation	3		
CHEM3111: Environmental Seminar	1	#	
<b>Total hours</b>	<b>14</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>

Semester 7	Hrs.	Grade	Semester 7
BIOL3054: Microbiology	4		
BIOL3114: Principles of Ecology	4		
GEOL3083: Hydrogeology	3		
CHEM4414: Instrumental Analysis	4	#	
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 8	Hrs.	Grade	Semester 8
CHEM4111: Environmental Seminar	1	#	
CHEM4991-4: Special Problems in Chemistry <b>OR</b> CHEM4951-4: Undergraduate Research in Chemistry	1-4	#	<b>Graduation Requirements?</b> Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120
General Elective	6-9		
<b>Total Hours</b>	<b>11</b>	<b>GPA</b>	

General Electives: 6 to 9 hours (1000-4000 level) as needed to earn 120 total hours

# indicates a "C" or better is required

General Electives	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	