

**2013-2014 Degree Map-Bachelor of Science in Chemistry: General 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**

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
#ENGL 1013: Comp I (ACTS=ENGL 1013)	3			
Social Science	3			
MATH 2914: Calculus I (ACTS= MATH 2405)	4		C or > required for Gen Ed. Milestone	
PHSC1001: Orientation to Physical Science	1			
#CHEM2124/2120: General Chemistry I (ACTS= CHEM 1414)	4		Milestone	
Total hours	15	GPA		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
#ENGL 1023: Comp II (ACTS= ENGL 1023)	3			
BIOL1114: Principles of Biology (ACTS= BIOL 1014)	4		Milestone	
MATH2924: Calculus II (ACTS= MATH 2505)	4		Milestone	
PHSC1011: Orientation to Physical Science II (MANDATORY)	1			
#CHEM2134/2130: General Chemistry II (ACTS= CHEM 1424)	4			
Total hours	16	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
Social Science	3			
PHYS 2014: Physical Princ. I or PHYS2114/2000: Gen. Physics I	4		(ACTS= PHYS 2014 or 2034)	
COMS2003*: Microcomp. Apps. or COMS2803: Prog. in C	3		*(COMS 2003 prereq.= COMS 1003)	
#CHEM3254: Fund. of Organic Chemistry	4		Milestone	
Total hours	14	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
U.S. History & Government	3			
PHYS 2024: Physical Princ. II or PHYS2124/2010: Gen. Physics II	4		(ACTS= PHYS 2024 or 2044)	
#CHEM3245: Quantitative Analysis	5			
#CHEM3264: Mechanistic Organic Chemistry	4			
Total hours	16	GPA	<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 U.S. History I (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Honors U.S. History I
ENGL 2173 Introduction to Film	HIST 2013 U.S. History II (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	<b>Speech Courses</b>
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	SPH 1003 Intro. to Speech Com. (ACTS=SPCH1003)
ENGL 2023 Honors World Literature	SPH 2003 Public Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	SPH 2173 Business and Professional Speaking
PHIL 2043 Honors Introduction to Philosophy	

Prerequisites (if applicable): MATH 1914 (ACTS=MATH1305) \_\_\_ OR MATH 1203 (ACTS=MATH1203) \_\_\_

**Sample Schedule**

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3			
#CHEM3301: Chemistry Seminar	1			
#CHEM3324: Physical Chemistry I	4			
#CHEM3423: Descriptive Inorganic Chemistry	3			
Science Elective	3		See Tech Catalog for approved choices	
*General Elective	1			
Total hours	15	GPA		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
Fine Arts & Humanities	3			
#CHEM3344: Principles of Biochemistry	4			
*General Elective	3			
*General Elective	2			
Total hours	12	GPA	<b>APPLY FOR GRADUATION</b>	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
#CHEM4414: Instrumental Analysis	4			
#CHEM Elective	3		See Tech Catalog for approved choices	
*General Elective	3			
*General Elective	3			
General Elective	3			
Total hours	16	GPA		

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
Social Sci/Fine Arts/Humanities/Speech	3			
#CHEM4401: Chemistry Seminar	1			
#CHEM Elective	3			
*General Elective	3			
*General Elective	3			
*General Elective	3			
Total Hours	16	GPA	<b>Graduation Requirements:</b> 40 hours 3000-4000 level courses No more than 4 PE activity hours Min. hours required: 120 2.00+ GPA	

\*General Electives: 14 hours 1000-4000 level; 10 hours 3000-4000 level

Recommended electives: German, Statistics, or ENGL 2053 (ACTS=ENGL2023)

# indicates a "C" or better is required

HIST	Social Sciences
HIST 1503 World Civilization (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World Civilization II (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOCI1013)
HIST 1543 Honors World Civilization I	PSY 2003 General Psychology (ACTS=PSYC1103)
HIST 2003 U.S. History I (ACTS=HIST2113)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
HIST 2013 U.S. HISTORY II (ACTS=HIST2123)	ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
HIST 2043 Honors U.S. History I	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	