

2022-2023 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/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

#Prerequisite Courses: ENGL 0303 ___ MATH 0803 ___ MATH 1003 ___ MATH 0903 ___ MATH 1113 ___ MATH 1110 ___ MATH 1203 ___ MATH 1914 ___ COMS 1003 ___

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		
MATH 2243- Calc. for Bus. & Econ. (ACTS=MATH 2203)	3	#	MATH 2914 may substitute	
PHSC 1001- Orientation to Physical Science	1			
ENVS 1004- Principles of Environmental Science	4		Milestone	
CHEM 2124/2120- 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	#		
Social Science	3			
CHEM 3313- Environmental Chemistry	3			
PHSC 1011- Orientation to Physical Science II (MANDATORY)	1			
CHEM 2134/2130- Gen. Chemistry II (ACTS= CHEM 1424)	4	#		
ECON 2003- Principles of Economics I (ACTS= 2103)	3			
Total hours	17	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
U.S. History & Government	3			
STAT 2163-Intro to Stat. Methods OR PSY/SOC 2053-Stat for Behavioral Sciences	3			
COMS 2003*- Microcomputer Applications OR COMS 2803-Programming in C	3		*(COMS 2003 prereq.= COMS 1003)	
PHYS 2014/2000- Algebra-Based Physics I	4		or PHYS 2114/2000- Calculus-Based Phys I	
CHEM 3254- Fund. of Organic Chemistry	4	#	Milestone	
Total hours	17	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
PHYS 2024/2010- Algebra-Based Physics II	4		or PHYS 2114/2000- Calculus-Based Phys II	
CHEM 2111- Environmental Seminar	1	#		
CHEM 3245- Quantitative Analysis	5	#		
CHEM 3264- Mechanistic Organic Chemistry	4	#		
Total hours	14	GPA	CHEM 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 <https://www.adhe.edu/students-parents/colleges-universities/transfer-info.-for-students/>

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 2183 Honors Introduction to Film	Communication Courses
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	COMM 1003 Intro to Speech Comm
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	COMM 2003 Public Speaking
ENGL 2023 Honors World Literature	COMM 2173 Business and Professional Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3			
ENGL 2053- Technical Writing (ACTS=ENGL 2023)	3			
BIOL 2124- Principles of Zoology (ACTS= BIOL 1054)	4			
GEOL 1014- Physical Geology (ACTS= GEOL 1114)	4			
CHEM 3353- Fundamentals of Toxicology	3	#		
Total hours	17	GPA		

Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
Fine Arts & Humanities	3			
Social Sci/Fine Arts/Humanities/Comm	3	#		
BIOL 2134- Principles of Botany (ACTS= BIOL 1034)	4			
BIOL 3043- Conservation	3			
CHEM 3111- Environmental Seminar	1	#		
Total hours	14	GPA	APPLY FOR GRADUATION	

Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
BIOL 3054- Microbiology	4			
BIOL 3114- Principles of Ecology	4			
GEOL 3083- Hydrogeology	3			
CHEM 4414- Instrumental Analysis	4	#		
Total hours	15	GPA		

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
CHEM 4111- Environmental Seminar	1	#		
CHEM 4991-4- Special Problems in Chemistry OR CHEM 4951-4- Undergraduate Research in Chemistry	1-4	#	Graduation Requirements? Min. hours 3000-4000 level courses: 40	
General Elective	6-9		No more than 4 PE activity hours Min. hours required:120	
Total Hours	11	GPA	2.00+ GPA	

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

indicates a "C" or better is required

Social Sciences
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
FIN 2013 Personal Finance
ECON 2003 Principles of Economics I (ACTS=ECON2103)
LEAD 1003 Introduction to Leadership
ECON 2103 Honors Principles of Economics I