

NAME:	T#:	DATE:

8-Semester Guaranteed Program

Rev. 03/9/18

2018-2019 Degree Map-Bachelor of Science in Chemistry: Biochemistry 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: Medical, Dental, Biophysicist, Chemical Engineer, Chemical Technician, Conservation Scientist, Environmental Engineer, 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 ENGL 0404	_ READ 0	103	MATH 0803 MATH 1003 I	MATH 0903 MATH 0900 MATH 1110 MATH	1203	MATH	1914
Sample Schedule			Milestones/Notes	Sample Schedule			Milestones/Notes
Semester 1	Hrs.	Grade	Semester 1	Semester 5	Hrs.	Grade	Semester !
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#		Fine Arts & Humanities	3	3	
Social Science	3			BIOL 2124- Principles of Zoology (ACTS= BIOL 1054)	4	ļ	
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	# C or > required for Gen Ed. 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	CHEM 3423- Descriptive Inorganic Chemistry	3	#	
Total hours	15	GPA		Total hours	15	GPA	
Semester 2	Hrs.		Semester 2	Semester 6	Hrs.		Semester 6
ENGL 1023- Comp 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	1	
MATH 2924- Calculus II (ACTS= MATH 2505)	4			CHEM 3363- Metabolic Biochemistry	3	#	
PHSC 1011- Orientation to Physical Science II (MANDATORY)	1			General Elective	4	ļ.	Recommend Statistics or ENGL2053
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4	#	Milestone				
Total hours	16	GPA		Total hours	15	GPA	APPLY FOR GRADUATION
Semester 3	Hrs.	1	Semester 3	Semester 7	Hrs.		Semester 7
Social Science	3			BIOL 3074- Human Physiology or BIOL 3174- Physiological Ecolog	4		
PHYS 2014/2000- Phys. Princ. I or PHYS 2114/2000- Gen. I	ы 4		(ACTS= PHYS 2014 or 2034)	CHEM 3324- Physical Chemistry I	+	#	Pre-req: PHYS 2114
COMS 2003*- Microcomp. Apps. or COMS 2803- Prog. in C	3		*(COMS 2003 prereq.= COMS 1003)	CHEM 4414- Instrumental Analysis	4	#	
CHEM 3254- Fund. of Organic Chemistry	4	#	Milestone	CHEM Elective (3000-4000 level)	3	3	Recommend Statistics or ENGL2053
				CHEM 4991- Spcl Probs.Chem. OR CHEM 4951- UG Rsrch in Chem.	1		
Total hours	14	GPA		Total hours	16	GPA	
			-	Semester 8	Hrs.		Semester 8
Semester 4	Hrs.		Semester 4	Fine Arts & Humanities	3	3	
U.S. History & Government	3			Social Sci/Fine Arts/Humanities/Comm	3		Graduation Requirements:
PHYS 2024/2010- Phys. Princ. II or PHYS2124/2010- Gen. F	Pt 4		(ACTS= PHYS 2024 or 2044)	BIOL 4033- Cell Biology	3	3	Min. hours 3000-4000 level courses: 40
CHEM 3245- Quantitative Analysis	5	#		CHEM 4401- Chemistry Seminar	1	. #	No more than 4 PE activity hours
CHEM 3264- Mechanistic Organic Chemistry	4	#		CHEM 4991- Spcl Probs.Chem. OR CHEM 4951- UG Rsrch in Chem.	1		Min. hours required:120
				General Elective	2		No more than 12 hours of D's.

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/

16 GPA

Fine Arts and Humanities
ART 2123 Experiencing Art (ACTS=ARTA1003)
MUS 2003 Introduction to Music (ACTS=MUSC1003)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)
ENGL 2173 Introduction to Film
JOUR 2173 Introduction to Film
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
ENGL 2022 Harris Mandal Danaston

Total hours

ENGL 2023 Honors World Literature PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2043 Honors Introduction to Philosophy PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

U.S. History & Government HIST 1903 Survey of American History HIST 2003 United States History to 1877 (ACTS=HIST2113) HIST 2043 Honors United States History to 1877 HIST 2013 United States History since 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003) Communication Courses COMM 1003 Intro to Speech Comm

CHEM ADVISOR ASSIGNED

HIST 2043 Honors U.S. History to 1877 HIST 1903 Survey of American History COMM 2003 Public Speaking POLS 2003 American Government (ACTS=PLSC2003) COMM 2173 Business and Professional Speaking ECON 2003 Principles of Economics I (ACTS=ECON2103) ECON 2103 Honors Principles of Economics I

Total Hours

indicates a "C" or better is required

HIST 1503 World Civilization to 1500 (ACTS=HIST1113)

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 1513 World Civilization since 1500 (ACTS=HIST1123)

General Electives: 6 hours 1000-4000 level (Statistics and ENGL 2053 recommended)

13 GPA

Social Sciences

ECON 2013 Principles of Economics II (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOCI1013) 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