

NAME:

8-Semester Guaranteed Program

T#:

DATE:

Rev. 2/22/21

Semester 6

Recommend Statistics or ENGL2053

APPLY FOR GRADUATION

2021-2022 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 MATH 0803 MATH 1003 MATH 0903 MATH 1113 MATH 1110 MATH 1203 MATH 1914

		Milestones/Notes	Sample Schedule			Milestones/Notes			
Hrs.	Grade	Semester 1	Semester 5	Hrs.	Grade	Semester 5			
3	#		Fine Arts & Humanities	3					
3			BIOL 2124- Principles of Zoology (ACTS= BIOL 1054)	4	ŀ				
4	#	# C or > required for Gen Ed. Milestone	CHEM 3301- Chemistry Seminar	1	#				
1			CHEM 3344- Principles of Biochemistry	4	#				
4	#	Milestone	CHEM 3423- Descriptive Inorganic Chemistry	3	#				
15	GPA		Total hours	15	GPA				
	3 3 4 1 4		3 # 3 # 4 # # C or > required for Gen Ed. Milestone 1 # Milestone 4 # Milestone	Hrs. Grade Semester 1 3 # 3 # 4 # 4 # 6 Cor > required for Gen Ed. Milestone 1 CHEM 3301- Chemistry Seminar CHEM 3344- Principles of Biochemistry CHEM 3342- Descriptive Inorganic Chemistry	Hrs. Grade Semester 1 3 # Fine Arts & Humanities 3 3 BIOL 2124- Principles of Zoology (ACTS= BIOL 1054) 4 4 # Cor > required for Gen Ed. Milestone CHEM 3301- Chemistry Seminar 1 4 # Milestone CHEM 3344- Principles of Biochemistry 4 4 # Milestone CHEM 3423- Descriptive Inorganic Chemistry 3	Hrs. Grade Semester 1 3 # Fine Arts & Humanities 3 4 # # C or > required for Gen Ed. Milestone BIOL 2124- Principles of Zoology (ACTS= BIOL 1054) 4 1 CHEM 3301- Chemistry Seminar 1 # 4 # Milestone CHEM 3344- Principles of Biochemistry 4 4 # Milestone Milestone Milestone			

Semester 6

Total hours

BIOL 3034- Genetics

General Elective

BIOL 2014- Human Anatomy (ACTS=BIOL 2404)

CHEM 3363- Metabolic Biochemistry

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
BIOL 1114- Principles of Biology (ACTS= BIOL 1014)	4		
MATH 2924- Calculus II (ACTS= MATH 2505)	4		
PHSC 1011- Orientation to Physical Science II (MANDATORY)	1		
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4	#	Milestone
Total hours	16	GPA	

Semester 3	Hrs.		Semester 3
Social Science	3		
PHYS 2014/2000- Algebra-Based Physics I	4		or PHYS 2114/2000- Calculus-Based Phys I
COMS 2003*- Microcomp. Apps. or COMS 2803- Prog. in C	3		*(COMS 2003 prereq.= COMS 1003)
CHEM 3254- Fund. of Organic Chemistry	4	#	Milestone
Total hours	14	GPA	

Hrs.		Semester 4
3		
4		or PHYS 2114/2000- Calculus-Based Phys II
5	#	
4	#	
16	GPA	CHEM ADVISOR ASSIGNED
	3 4 5 4 4 16	3 4 5 # 4 # 16 GPA the academic progress of

about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at https://www.adbe.edu/ttu/ente-parent/colleges_universities/transfer/info_for_students/

https://www.aune.edu/students-parents/coneges-universites/transit	er-inioior-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)	

Semester 7	Hrs.		Semester 7
BIOL 3074- Human Physiology or BIOL 3174- Physiological Ecolog	_{sy} 4		
CHEM 3324- Physical Chemistry I	4	#	Pre-req: PHYS 2114
CHEM 4414- Instrumental Analysis	4	#	
CHEM Elective (3000-4000 level)	3		Recommend Statistics or ENGL2053
CHEM 4991- Spcl Probs.Chem. OR CHEM 4951- UG Rsrch in Chem.	1		
Total hours	16	GPA	
Semester 8	Hrs.		Semester 8
Fine Arts & Humanities	3		
Social Sci/Fine Arts/Humanities/Comm	3		Graduation Requirements:
BIOL 4033- Cell Biology	3		Min. hours 3000-4000 level courses: 40
CHEM 4401- Chemistry Seminar	1	#	No more than 4 PE activity hours
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.
Total Hours	13	GPA	

Hrs.

4

4

4

3 #

15 GPA

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

indicates a "C" or better is required

HIST 1503 World History to 1500 (ACTS=HIST1113) HIST 1513 World History since 1500 (ACTS=HIST1123) HIST 1543 Honors World History to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2013 U.S. History to 1877 (ACTS=HIST2123) HIST 2013 Survey of American History POIS 2003 American Government (ACTS=PLSC2003) ECON 2003 Principles of Economics I (ACTS=ECON2103) ECON 2103 Honors Principles of Economics I 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