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8-Semester Guaranteed Program

Rev. 10/14/2022

2022-2023 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 ___ COMS 1003 ___ Sample Schedule

sample Schedule Willestones/Notes		Millestones/Notes	
Semester 1	Hrs.	Grade	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
PHSC 1001- Orientation to Physical Science	1		
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4	#	Milestone
Total hours	15	GPA	

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*- Microcomputer Applications OR	2		*(COMS 2003 prereg.= COMS 1003)
COMS 2803-Programming in C	3		(CONS 2005 prereq CONS 1005)
CHEM 3254- Fund. of Organic Chemistry	4	#	Milestone
Total hours	14	GPA	

Semester 4	Hrs.		Semester 4
U.S. History & Government	3		
PHYS 2024/2010- Algebra-Based Physics II	4		or PHYS 2114/2000- Calculus-Based Phys II
CHEM 3245- Quantitative Analysis	5	#	
CHEM 3264- Mechanistic Organic Chemistry	4	#	
Total hours	16	GPA	CHEM ADVISOR ASSIGNED

The Arkansas Course Transfer System (ACLS) is designed to assist in planning the academic progress of students. This system contains informati 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/

U.S. History & Government

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 2183 Honors Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)

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)

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)	
1 025 2005 / interledit Government (1 c 15 1 25 22 005)	
Communication Courses	
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Communication Courses	

Sample Schedule		Mile	estones/Notes
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
BIOL 2124- Principles of Zoology (ACTS= BIOL 1054)	4		
CHEM 3301- Chemistry Seminar	1	#	
CHEM 3344- Principles of Biochemistry	4	#	
CHEM 3423- Descriptive Inorganic Chemistry	3	#	
Total hours	15	GPA	

Semester 6	Hrs.		Semester 6
BIOL 2014- Human Anatomy (ACTS=BIOL 2404)	4		
BIOL 3034- Genetics	4		
CHEM 3363- Metabolic Biochemistry	3	#	
General Elective	4		Recommend Statistics or ENGL2053
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.		Semester 7
BIOL 3074- Human Physiology or BIOL 3174- Physiological Ecolog	y 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	

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 2043 Honors U.S. History to 1877
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Economics I (ACTS=ECON2103)

CON 2103 Honors Principles of Economics I

ECON 2013 Principles of Economics II (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOC11013)
PSY 2003 General Psychology (ACTS=PSYC1103)
ANTH 1213 Intro. to Anthropology (ACTS=ANTH2013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies
FIN 2013 Personal Finance

FIN 2013 Personal Finance LEAD 1003 Introduction to Leadership