

NAME:	T#:	DATE:

8-Semester Guaranteed Program

Rev. 2/10/20

# 2020-2021 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/

Industrial Air Pollution Analyst, Industrial Waste Inspector, Materials Scientist, Microbiologist, Pharmacist, Soil Scientist, Toxicologist, Water Pollution Control Inspector

Possible careers include: Medical, Dental, Biophysicist, Chemical Engineer, Chemical Technician, Conservation Scientist, Environmental Engineer, Food Technologist, Forensic Science Technician, #Prerequisite Courses: ENGL 0303 MATH 0803 MATH 1003 MATH 0903 MATH 0900 MATH 1113 MATH 1110 MATH 1203 MATH 1914 Sample Schedule Sample Schedule Milestones/Notes Milestones/Notes Semester 1 Hrs. Grade Semester 5 Hrs. Grade Semester 5 Semester 1 ENGL 1013- Comp I (ACTS=ENGL 1013) 3 # Fine Arts & Humanities Social Science BIOL 2124- Principles of Zoology (ACTS= BIOL 1054) MATH 2914- Calculus I (ACTS= MATH 2405) 4 # # C or > required for Gen Ed. Milestone 1 # CHEM 3301- Chemistry Seminar PHSC 1001- Orientation to Physical Science CHEM 3344- Principles of Biochemistry 4 # CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414) 4 # CHEM 3423- Descriptive Inorganic Chemistry 3 # Milestone 15 GPA 15 GPA Total hours Total hours Semester 2 Hrs. Semester 2 Semester 6 Hrs. Semester 6 BIOL 2014- Human Anatomy (ACTS=BIOL 2404) ENGL 1023- Comp II (ACTS= ENGL 1023) 4 4 BIOL 1114- Principles of Biology (ACTS= BIOL 1014) BIOL 3034- Genetics 4 CHEM 3363- Metabolic Biochemistry 3 # MATH 2924- Calculus II (ACTS= MATH 2505) PHSC 1011- Orientation to Physical Science II (MANDATORY) General Elective Recommend Statistics or ENGL205 4 # CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424) Milestone Total hours 16 GPA Total hours 15 GPA **APPLY FOR GRADUATION** Semester 3 Hrs. Semester 3 Semester 7 Hrs. Semester 7 BIOL 3074- Human Physiology or BIOL 3174- Physiological Ecological Social Science PHYS 2014/2000- Algebra-Based Physics I or PHYS 2114/2000- Calculus-Based Phys CHEM 3324- Physical Chemistry I 4 # Pre-req: PHYS 2114 \*(COMS 2003 prereg.= COMS 1003 CHEM 4414- Instrumental Analysis 4 # COMS 2003\*- Microcomp. Apps. or COMS 2803- Prog. in C CHEM 3254- Fund. of Organic Chemistry Milestone CHEM Elective (3000-4000 level) Recommend Statistics or ENGL2053 CHEM 4991- Spcl Probs. Chem. OR CHEM 4951- UG Rsrch in Chem. 14 GPA 16 GPA Total hours Total hours Semester 8 Hrs. Semester 8 Semester 4 Hrs. Semester 4 Fine Arts & Humanities Social Sci/Fine Arts/Humanities/Comm 3 U.S. History & Government **Graduation Requirements** 4 BIOL 4033- Cell Biology 3 PHYS 2024/2010- Algebra-Based Physics II or PHYS 2114/2000- Calculus-Based Phys II Min. hours 3000-4000 level courses: 40 5 # CHEM 4401- Chemistry Seminar 1 # No more than 4 PE activity hours CHEM 3245- Quantitative Analysis CHEM 3264- Mechanistic Organic Chemistry 4 # CHEM 4991- SpcI Probs.Chem. OR CHEM 4951- UG Rsrch in Chem. 1 Min. hours required:120 **General Elective** No more than 12 hours of D's 13 GPA 16 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 General Electives: 6 hours 1000-4000 level (Statistics and ENGL 2053 recommended)

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

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)

#### 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

COMM 2003 Public Speaking

COMM 2173 Business and Professional Speaking

## # 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)

ECON 2103 Honors Principles of Economics I

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