MAJOR MAP FOR BACHELOR OF ARTS IN CHEMISTRY CONCENTRATION IN BIOCHEMISTRY (CHEMBA-BIOC) Catalog Years: 2015-16 through 2025-26

Name: ______ ID Number: _____ Date: _____ Anticipated Graduation Semester: ____ **CHEMBA-BIOC Degree Snapshot Advising Notes University or College Requirements** Overall Academic Progress (120 total Hrs required): Eligible Hours in Progress + Hours Completed + Hours Remaining = 120 hours minimum. Additional hours may be required to complete chosen major(s)/minor(s). [Be sure to check In Progress hours in Workday for ineligible courses.) Cumulative GPA- UofA courses only, 2.0 minimum ____ Major Residency Rule- 15 hrs CHEM courses in residence. (Hrs remaining after in-progress) _ Upper-Level Enrollment Requirement- 30-hrs 30000+ at UofA. (Hrs remaining after in-progress) Fulbright College 40-hour rule- 40-hrs 30000+ or 20000+ w/ prereq (Hrs remaining after in-progress) **State Minimum Core Requirements University Core in English Composition I** (0-3 hrs) ENGL 10103/101H3 Composition I or exemption **University Core in English Composition II (0-3 hrs)** ENGL 10203/102H3 Composition II or exemption _____ University Core in Mathematics (3 hrs possible overlap with Calculus I or Survey of Calculus) MATH 11003 College Algebra or MATH 11103 Quantitative Reasoning (or higher MATH) University Core in Science (8 hrs possible overlap with multiple requirements in the major. Requirements will be marked with ___ Science w/ lab ______ ____ Science w/ lab _____ **University Core in US History or Government (3 hrs)** _____ US HIST/PLSC ______ University Core in Fine Arts (3 hrs) Fine Art **University Core in Humanities** (3 hrs) _____ Humanities ______ **University Core in Social Sciences (9 hrs)** Social Science Social Science Social Science_

Last Updated: Aug. 1, 2025

Degree Requirements continued on Page 2 with Major Requirements

MAJOR MAP FOR BACHELOR OF ARTS IN CHEMISTRY CONCENTRATION IN BIOCHEMISTRY (CHEMBA-BIOC)

Catalog Years: 2015-16 through 2025-26

Major Requirements

World Language Intern	nediate I Level or Higher (3-9 hrs)	Biochemistry Requirements for CHEMBA-Biochem (6-7
Language	10103 (or fluency)	hrs)
Language	10203 (or fluency)	Choose 1 sequence:
	20103 (or higher required)	CHEM 38103 Elements of Biochemistry
		CHEM 42203/42101 Instrumental Analysis
Chemistry for Majors I	(4 hrs) **	<u>Or:</u>
Choose 1:		CHEM 38103 Elements of Biochemistry
CHEM 12073/12	071 Chemistry for Majors I	CHEM 41203 Advanced Inorganic Chemistry
CHEM 14103/14	101 University Chemistry I	<u>Or:</u>
		CHEM 38103 Elements of Biochemistry
Chemistry for Majors II	(4 hrs) **	CHEM 47203 Experimental Methods in Organic
Choose 1:		Chemistry
CHEM 12283/12	281 Chemistry for Majors II	Or:
CHEM 14203/14	201 University Chemistry II	CHEM 481H3 Honors Biochemistry I
		CHEM 484H3 Honors Biochemistry II
Analytical Chemistry (4	hrs)	
CHEM 22673/22	671 Analytical Chemistry	Or:
		CHEM 58103 Biochemistry I
Organic Chemistry I (4-	5 hrs)	CHEM 58403 Biochemistry II
Choose 1:		Dhysica I / 4 hys**
	072 Organic Chemistry for Majors I	Physics I (4 hrs)** Choose 1:
CHEM 36053/36	051 Organic Chemistry I	
		PHYS 20103/20101 College Physics I
Organic Chemistry II (3 Choose 1:	hrs)	PHYS 20304 University Physics I
	203 Organic Chemistry for Majors II	Physics II (4 hrs) **
	203 Organic Chemistry II	Choose 1:
CITEIVI 30203/30	203 Organic Chemistry II	PHYS 20303/20301 College Physics II
Elements of Physical Cl	nemistry or Physical Chemistry I &	PHYS 20404 University Physics II
II (4-10 hrs)		
Choose 1:		Calculus I or Survey of Calculus (3-4 hrs)
CHEM 34603/34	601 Elements of Physical Chemistry	Choose 1:
Or:		MATH 22003 Survey of Calculus
	sical Chemistry I AND	MATH 24004 Calculus I
CHEM 35204/35	102 Physical Chemistry II	
<u></u>	,	BIOL 30000+ Elective for CHEM (3 hrs)
Biochemical Technique	es or Independent Research (3 hrs)	BIOL 30000+
Choose 1:		
CHEM 48503 Bio	chemical Techniques	BIOL Electives for CHEM (3 courses, 8 hrs minimum)
		BIOL BIOL
Or (3 semester s of independent research):		BIOL
CHEM 4000V/40		BIOL
CHEM 4000V/40		General Electives (9-44 hrs. Hours vary based on how
CHEM 4000V/40		much overlap students choose between major and core
		requirements. If required UNIV 10051 University
		Perspectives counts here.)
Last Updated: Aug. 1, 2025		

Graduation Plan

Use the following additional resources in addition to this major map to complete your graduation plan (<u>Catalog</u> and your <u>Degree Audit</u> in UAconnect). Many students have more than one major minor or pre-professional goal that has additional required classes. This tool allows you to combine all your educational goals in to one plan.

High School credit	List all Advanced	Placement International Baccalaurea	te Dual or Concurrent credit	
Year	Fall	Spring	Summer	Total
Year 1				Total 1st year credit hours (aim for 30):
Year 2				Total 2 nd year credit hours (aim for 60):
Year 3				Total 3 rd year credit hours (aim for 90):
Year 4				Total 4 th year credit hours (Must be at least 120):

Please visit https://catalog.uark.edu/undergraduatecatalog for an extensive list of core major graduation and prerequisite requirements. To read more about individual classes visit the course of instruction page for course descriptions.

Degree Requirement Breakdown by Category

The following information is designed to help you navigate your experience in your degree and answer common questions that may come up for each requirement. All requirements for graduation are documented un the <u>Catalog of Studies</u>.

University or College Requirements			
Academic Requirement Name	Catalog Requirement	Additional Notes	
Overall Academic Progress	Overall Academic Progress: 120 graduation eligible hours required	 Overall Academic Progress: Students must earn a minimum of 120 credit hours. The total number of hours required to complete specific major and minor combinations may vary beyond 120 hours. Graduation Eligible Hours: The following classes are not eligible for degree credit- ENGL 00001 ENGL 00101 MATH 00101 MATH 00202 MATH 01101 any duplicate credit where a course is not listed as repeatable in the catalog. These classes may show up in Workday Student as in-progress hours, but they will not post as units satisfying Overall Academic Progress when grades post. 	
Cumulative GPA	GPA: must be 2.0 or higher	GPA: Students must maintain a 2.0 Grade Point Average (GPA) to remain in good standing and be eligible for graduation.	
Fulbright College 40- Hour Rule	 Fulbright College 40-hour rule: minimum 40 hours upper-level. Includes all 30000+ courses and 20000+ if the course has prerequisite. 	• Fulbright College 40-hour rule: Students must take at least 40 credit hours of upper-level courses. This includes courses numbered 30000 level or above or 20000 level courses if the course has a prerequisite. It is not limited to courses taken in residence.	
Upper-Level Enrollment Requirement	Upper-Level Enrollment Requirement: minimum 30 hours 30000+ taken in residence	Upper-Level Enrollment Requirement (30-hr rule): Students are required to take at least 30 credit hours of upper-level (30000+) courses in residence. This includes UA faculty-led study abroad classes online/on-campus classes and courses offered through the Global Campus; and all other courses paid toward Fayetteville campus tuition and fees.	
CHEMBA Residency Rule	CHEMBA Residency Rule: minimum 15 hours CHEM courses taken in residence	Residency Rule: Students must take at least 50% of their program (i.e. major or minor) requirements in residence. For programs that require classes from other departments this rule is defined only by required classes from the program's home department.	
	State Minimum Core Requi	rements	
University Core in English Composition I 0-3 hrs	 ENGL 10103/101H3 Composition I or SAT/ACT exemption 	See <u>Catalog</u> for information about placement and/or exemption.	
University Core in English Composition II	ENGL 10203/102H3 Composition II or SAT/ACT exemption	See <u>Catalog</u> for information about placement and/or exemption.	
0-3 hrs			

University Core in	Choose 1:	Based on ACT/SAT or other math placement scores
Mathematics	MATH 11003 College Algebra	students may need to enroll in additional remediation
	MATH 11103 Quantitative Reasoning	related courses. See catalog or math placement
3 hrs	WATTI 11103 Quantitative Reasoning	website for additional information.
		website for additional information.
University Core in	Choose 2: (each class will have a required lecture	Some classes will have pre-requisites
Science	and lab component):	Some classes will have pre-requisites
<u> </u>	, ,	
8 hrs	ANTH 10143/ANTH 10141 Intro to Biological Application of the ANTH 101412 (101412)	
	Anthropology (or ANTH 101H3/101H1)	
	ASTR 20003/20001 Survey of the Universe	
	(or ASTR 200H3/200H1)	
	BIOL 10004 Biological Principles	
	BIOL 10103/10101 Principles of Biology (or	
	BIOL 154H3/154H1)	
	BIOL 10104 Biology for Majors	
	BIOL 10303/10301 Plant Biology	
	BIOL 10503/10501 Principles of Zoology	
	BIOL 24003/24001 Human Anatomy	
	BIOL 24103/24101 Human Physiology	
	CHEM 10003/10001 Chemistry in the	
	Modern World	
	CHEM 12103/12101 Fundamentals of	
	Chemistry	
	CHEM 12073/12071 Chemistry for Majors I	
	CHEM 12283/12281 Chemistry for Majors II	
	CHEM 14103/14101 University Chemistry I	
	CHEM 14203/14201 University Chemistry II	
	(or CHEM 142H3/142H1)	
	ENSC 10003/10001 Environmental Science	
	(or ENSC 100H3/100H1)	
	ENTO 10203/10201 Insects Science and	
	Society	
	GEOL 11103/11101 Physical Geology (or	
	GEOL 111H3/111H1)	
	• GEOL 11203/11201 Earth Science	
	GEOS 11504 Introduction to Geology for	
	Science Majors	
	PHYS 10243/10241 Physics and Human	
	Affairs (or PHYS 102H3/102H1)	
	PHYS 10304 Physics for Elementary	
	Education Majors	
	PHYS 10404 Physics for Architects I	
	PHYS 10504 Physics for Architects II	
	PHYS 20103/20101 College Physics I	
	PHYS 20203/20201 College Physics II	

4 University Physics I (or PHYS 4 University Physics II (or PHYS 5 History of the American People	*Some courses may appear as options in multiple areas of the State Minimum Core. You can only count
	each course one time in State Minimum Core
B History of the American People esent B American National Government 10H3)	categories.
	*Some courses may appear as options in multiple
3 Architecture Lecture (or ARCH 3 Art Lecture (or ARHS 100H3) 003 Film Lecture (or COMM	areas of the State Minimum Core. You can only count each course one time in State Minimum Core categories.
O3 Movement and Dance 3 Creative Writing 1 H4 Honors Birth of Modern O0-1900 (honors only) 3 The American Landscape (or 3) O3 Experiencing Music (or MUSC 3 Music and Society (music majors LIT 101H3) 3 Popular Music 3 Theatre Appreciation (or THTR 3 Musical Theatre Appreciation (or 3) 3 Acting I	
3 Acting 1 for Theatre majors	*Some courses may appear as options in multiple
3 The African American	areas of the State Minimum Core. You can only count
23 Introduction to Archeology 23 Diversity and Design (or ARCH 23 Introduction to Classical Studies: 25 CLST 100H3) 26 Introduction to Classical Studies: 26 CLST 101H3) 27 CLST 101H3) 28 Media Community and	each course one time in State Minimum Core categories.
CLS 3 Int CLST 303	T 100H3) croduction to Classical Studies: 101H3)

	DANC 10003 Dance Appreciation	
	DASC 21303 Data Privacy & Ethics	
	ENGL 11103 World Literature: Beginnings to	
	1650 CE (or ENGL 111H3)	
	ENGL 11203 World Literature: 1650 CE to	
	Present (or ENGL 112H3)	
	ENGL 12103 Introduction to Literature (or	
	·	
	ENGL 20103 Creative Writing I	
	ENGL 20103 Creative Writing I CNST 20003 Introduction to Condex Studies	
	GNST 20003 Introduction to Gender Studies (or CNST 20013)	
	(or GNST 200H3)	
	HUMN 112H4 Honors Equilibrium of Cultures 500 1600 (Honors and a)	
	Cultures 500-1600 (Honors only)	
	HUMN 22103 Introduction to World Policions	
	Religions	
	LALS 20103 Introduction to Latin American and Latina Studies	
	and Latino Studies	
	MRST 20103 Introduction to Medieval and	
	Renaissance Studies	
	MUSY 20003 Music in World Cultures (or	
	MUSY 200H3)	
	PHIL 20003 Introduction to Philosophy (or	
	PHIL 200H3)	
	PHIL 21003 Introduction to Ethics	
	• PHIL 22003 Logic	
	PHIL 23003 Human Nature and the Meaning	
	of Life	
	PHIL 31003 Ethics and the Professions THE ACCOUNT OF THE PROPERTY OF T	
	THTR 10003 Theatre Appreciation (or THTR 40013)	
	100H3)	
	THTR 10103 Musical Theatre Appreciation (20112)	
	(or THTR 101H3)	
	Any Intermediate level world language Any love of the 20000 level	
University Core in	numbered at the 20000 level Choose 3: *	Students must take classes from at least two
University Core in Social Sciences	AGEC 11003 Principles of Agriculture	
<u> </u>	Microeconomics (or AGEC 110H3)	departments.
9 hrs	AGEC 21003 Principles of Agriculture	*Some courses may appear as options in multiple
	Macroeconomics (or AGEC 210H3)	areas of the State Minimum Core. You can only count
	ANTH 10203 Intro to Cultural Anthropology	each course one time in State Minimum Core
	(or ANTH 102H3)	categories.
	COMM 10203 Communication in a Diverse	categories.
	World (or ANTH 102H3)	

- ECON 21003 Principles of Macroeconomics (or ECON 210H3)
- ECON 22003 Principles of Microeconomics (or ECON 220H3)
- ECON 21403 Basic Economics: Theory and Practice (or ECON 214H3)
- GEOG 11103 Human Geography (or GEOG 111H3)
- GEOG 21003 World Regional Geography (or GEOG 210H3)
- HDFS 14003 Life Span Development (HDFS 140H3)
- HDFS 24103 Family Relations (or HDFS 241H3)
- HDFS 26003 Rural Families & Communities (HDFS 260H3)
- HIST 11193 Institutions and Ideas of World Civilizations I (or HIST 111H3)
- HIST 11293 Institutions and Ideas of World Civilizations II (or HIST 112H3)
- HIST 20003 History of the American People to 1877
- HIST 20103 History of the American People 1877 to Present
- HIST 20903 Animals in World History
- HUMN 111H4 Honors Roots of Culture to 500
 C.E. (Honors only)
- HUMN 211H4 Honors Birth of Modern Culture 1600-1900 (honors only)
- INST 20103 Introduction to International and Global Studies
- INST 211H4 Honors Pathways to Global and Social Change
- JOUR 10203 Media and Society
- PLSC 20003 American National Government (or PLSC 200H3)
- PLSC 20103 Intro to Comparative Politics
- PLSC 21003 State and Local Government
- PLSC 28103 Intro to International Relations (or PLSC 281H3)
- PSYC 20003 General Psychology (or PSYC 200H3)
- RESM 28503 Leisure and Society (or RESM 285H3)

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	SOCI 10103 General Sociology (or SOCI	
	201H3)	
	SOCI 20103 Social Problems	
	STEM 20003 The Art of STEM	
	Communication Major Populingment	
AAA IOD I ANGLIAGE	Major Requirements	
MAJOR LANGUAGE	Get to the Intermediate I (20103) level or higher	Language Options: See the <u>catalog</u> for complete list
REQUIREMENT	of a world language:	
3-9 hrs		Language Placement: See the WLLC website for a list
3 3 1113	This may be completed by taking only the 20103	of available <u>placement exams</u> for certain languages as
	level, if the student has previous fluency, but is	well as information about <u>credit by exam</u> for Spanish.
	most commonly completed by taking three	
	classes (ARAB and CHIN both also offer intensive	
	formats for accelerated study):	
	Elementary I (10103)	
	Elementary II (10203)	
	Intermediate I (20103)	
	` ′	Students cannot receive degree credit for both CHEM
Chemistry for Majors	Choose 1:	
l	CHEM 12073/12071 Chemistry for Majors I	12073 and 14103.
<u>.</u>	CHEM 14103/14101 University Chemistry I	
3 hrs		While University Chemistry is accepted, Chemistry for
		Majors is Preferred
Chemistry for Majors	Choose 1:	Students cannot receive degree credit for both CHEM
<u>II</u>	CHEM 12283/12281 Chemistry for Majors II	12283 and CHEM 14203.
4 6 40	CHEM 14203/14201 University Chemistry II	
4 hrs		While University Chemistry is accepted, Chemistry for
		Majors is Preferred
Analytical Chemistry	CHEM 22673/22671 Analytical Chemistry	
4 hrs		
Organic Chemistry I	Choose 1:	CHEM 360H3/360H2 also counts here
4 F buo	CHEM 37073/37072 Organic Chemistry for Majors	
4-5 hrs	I	
	CHEM 36053/36051 Organic Chemistry I	
Organic Chemistry II	Choose 1:	CHEM 362H3/362H2 also counts here
	CHEM 37203/37203 Organic Chemistry for Majors	
4-5 hrs	II	
	CHEM 36203/36203 Organic Chemistry II	
Elements of Physical	Choose 1:	
Chemistry or Physical	CHEM 34603/34601 Elements of Physical	
Chemistry I & II	Chemistry	
	Or:	
4-10 hrs	CHEM 35004 Physical Chemistry I AND	
	CHEM 35204/35102 Physical Chemistry II	

Biochemical	Choose 1:	
Techniques or	CHEM 48503 Biochemical Techniques	
Independent	CHEW 40505 Biochemical rechinques	
<u>Research</u>	Completion of a senior thesis based on	
	independent research wherein at least 1 hour	
3 hrs	of CHEM 4000V (or CHEM 400HV) is earned	
	·	
Die als ausietus feu	during three different semesters.	Students cannot receive credit for both Elements of
Biochemistry for CHEMBS	Choose 1 sequence:	
CHEIVIDS	0.0504.004.00.51	Biochemistry and Honors Biochemistry I & II
6 hrs	CHEM 38103 Elements of Biochemistry	
	CHEM 42203/42101 Instrumental Analysis	
	Or:	
	CHEM 38103, Elements of Biochemistry	
	CHEM 41203, Advanced Inorganic Chemistry	
	Or:	
	CHEM 38103, Elements of Biochemistry	
	CHEM 47203, Experimental Methods in Organic	
	Chemistry (
	Or:	
	CHEM 481H3, Honors Biochemistry	
	CHEM 484H3, Honors Biochemistry II	
	, , , , , , , , , , , , , , , , , , , ,	
	Or:	
	CHEM 58103, Biochemistry I	
	CHEM 58403, Biochemistry II	
Physics I	PHYS 20103/20101 College Physics I	
<u>1 11 y 31 C 3 1</u>	OR	
4 hrs	PHYS 20304 University Physics I	
Dhysics II		
Physics II	PHYS 20203/20201 College Physics II OR	
4 hrs	PHYS 20404 University Physics II	
Calculus I or Survey of	Choose 1:	
Calculus	MATH 22003 Survey of Calculus	
	MATH 24004 Calculus I	
3-4 hrs		
BIOL 30000+ Elective	Take 3 credit hours of BIOL courses numbered	
for CHEM	30000 level or higher	
	<u> </u>	
3 hrs		
BIOL Electives for	Take 3 additional BIOL courses. Hours for	
<u>CHEM</u>	individual courses may vary but must be at least 8	
2 courses 0 hrs	credit hours	
3 courses, 8 hrs	. 40. 2024	

General Electives 9-44 hrs	Hours will vary depending on concentration choice, possible overlap in major, and whether a student is exempt from ENGL 10103, ENGL 10203,	Some general electives may need to be upper-level to meet college and university residency requirements.
	and UNIV 10051.*	* UNIV 10051 (or an equivalent course) is required for all incoming freshmen. Some students may have taken one of the following courses instead: AFLS 102H3 ARSC 12001, BUSI/WCOB 11101, BUSI/WCOB 111H1, GNEG 11101, GNEG 111H1, HIST 1003(H), HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, STEM 12001. Students who transfer to the University of Arkansas with at least 24 credit hours are not required to take UNIV 10051.
<u>Honors</u>	 Minimum Requirements for Honors: Maintain cumulative grade point average of 3.5. Complete Honors <u>Capstone Project</u> Complete all required Honors Courses 	Honors Capstone Project Timeline: Honors students should consistently work with their academic advisor and thesis advisor to ensure they stay on track with their honors requirements, but can consult the Fulbright Honors SharePoint for important dates.
	See <u>Catalog</u> for full description of requirements.*	* Students following honors requirements from a catalog earlier than 2025-26 should consult with their academic advisor to confirm requirements.